



6LY3

series

OPERATION MANUAL

P/N: 0A1957-G0000

YANMAR
®

**MARINE
ENGINES**

TABLE OF CONTENTS

	Page
Introduction	iii
Record of Ownership	iv
Table of Contents	1
Safety	1
Safety Precautions	2
Before You Operate.....	2
During Operation and Maintenance.....	3
Product Overview	21
Yanmar 6LY3 Features and Applications.....	21
Component Identification	22
Operation Side	22
Non-Operation Side	23
Location of Labels	24
Nameplate	25
Function of Major Components	26
Electronic Control System (ECS).....	27
Display	28
Before You Operate	35
Diesel Fuel	40
Diesel Fuel Specifications	40
Filling the Fuel Tank	41
Bleeding the Fuel System.....	43

TABLE OF CONTENTS

Engine Oil	44
Engine Oil Specifications	44
Engine Oil Viscosity	45
Checking Engine Oil.....	45
Selection of Marine Gear Oil	45
Engine Coolant	46
Engine Coolant Specifications	47
Coolant (Fresh Water Cooling System)	47
Cranking	50
Daily Checks.....	51
Visual Checks	51
Check Diesel Fuel, Engine Oil, and Engine Coolant Levels.....	52
Checking and Refilling Marine Gear Oil	52
Checking the Control Head	52
Checking the Alarm Indicators	52
Preparing Fuel, Oil, and Coolant in Reserve.....	52
Engine Operation	53
Starting the Engine	64
Before Starting the Engine	64
To Start the Engine	64
Shifting	66
Cautions During Operation	67
Shutting Down the Engine	70
Normal Shutdown.....	70
Emergency Shutdown	70
Periodic Maintenance	73
Safety Precautions	73
Before You Operate	73
During Operation and Maintenance	74
Precautions.....	90
The Importance of Periodic Maintenance	90
Performing Periodic Maintenance	91
The Importance of Daily Checks	91
Keep a Log of Engine Hours and Daily Checks .	91
Yanmar Replacement Parts	91
Tools Required.....	91
Ask Your Authorized Yanmar Marine Dealer for Help.....	91
Required EPA Maintenance - USA Only	92
EPA Installation Requirements - USA Only	92
Tightening Fasteners	92
Standard Torque Chart	92

Periodic Maintenance Schedule	93
Inspection and Maintenance of EPA	
Emission-Related Parts.....	95
Periodic Maintenance Procedures.....	96
After Initial 50 Hours of Operation.....	96
Replace Engine Oil and Engine	
Oil Filter	96
Check the Electronic Control	
System Operation	98
Adjust the Propeller Shaft Alignment ...	98
Every 50 Hours of Operation.....	99
Drain Fuel Filter and Fuel Filter / Water	
Separator	99
Check the Battery	101
Adjust Alternator V-Belt Tension.....	103
Every 250 Hours of Operation.....	104
Check the Fuel Injector Spray Pattern	104
Adjust Intake / Exhaust Valve	
Clearance (1st Time)	104
Drain the Fuel Tank	105
Replace the Fuel Filter Element	106
Replace the Engine Oil (Crankcase) ..	106
Replace the Engine Oil Filter	
Element.....	106
Check the Seawater Pump Impeller ...	106
Replace the Anode	107
Clean the Air Intake Silencer	107
Clean the Exhaust / Water Mixing	
Elbow.....	108
Clean the Turbocharger Blower.....	108
Flush the Aftercooler.....	108
Check the Wiring Connectors	108
Tighten All Major Nuts and Bolts	108
Check / Replace the Flexible Engine	
Mounts.....	108
Replace Engine Coolant.....	109
Every 500 Hours of Operation.....	109
Replace the Seawater Pump Impeller	109
Adjust the Propeller Shaft Alignment ..	109
Check Alternator Belt Tension	109

TABLE OF CONTENTS

Every 1000 Hours of Operation	110
Check the Fuel Injector Spray	
Pattern.....	110
Clean and Check the Seawater	
Passages	110
Replace Alternator Belt	110
Adjust Intake / Exhaust Valve	
Clearance.....	110
Replace Flexible Engine Mounts.....	110
Every 2000 Hours of Operation	111
Overhaul and Check Fuel Feed	
Pump.....	111
Clean Engine Oil Cooler.....	111
Clean Seawater and Engine	
Coolant System.....	111
Replace Rubber Fuel Hoses	111
EPA Requirements.....	112
EPA Certification Plates	112
Conditions to Ensure Compliance with EPA	
Emission Standards	112
Inspection and Maintenance	113
Troubleshooting	115
Troubleshooting Chart.....	116
Troubleshooting Information	117
Long-Term Storage	119
Before You Place the Engine in Long-Term	
Storage	119
Returning the Engine to Service.....	120
Specifications	121
Principal Engine Specifications	121

SAFETY

Yanmar considers safety of great importance and recommends that anyone who comes into close contact with its products, such as those who install, operate, maintain or service Yanmar products, exercise care, common sense and comply with the safety information in this manual and on the machine's safety labels. Keep the labels from becoming dirty or torn and replace them if they are lost or damaged. Also, if you need to replace a part that has a label attached to it, make sure you order the new part and label at the same time.



This safety alert symbol appears with most safety statements. It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alert symbol.

DANGER

Danger (the word “DANGER” is in white letters with a red rectangle behind it) – indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Danger is limited to the most extreme situations.

0000001en

WARNING

Warning (the word “WARNING” is in black letters with an orange rectangle behind it) – indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

0000001en

⚠ CAUTION

Caution (the word “CAUTION” is in black letters with a yellow rectangle behind it) – indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

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CAUTION

Caution *without the safety alert symbol* indicates a potentially hazardous situation that can cause damage to the engine, personal property and / or the environment or cause the engine to operate improperly.

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SAFETY PRECAUTIONS

Before You Operate

CAUTION



NEVER permit anyone to install or operate the engine without proper training.

- Read and understand this Operation Manual before you operate or service the engine to ensure that you follow safe operating practices and maintenance procedures.
- Safety signs and labels are additional reminders for safe operating and maintenance techniques.
- See your authorized Yanmar marine dealer or distributor for additional training.

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During Operation and Maintenance

DANGER



EXPLOSION HAZARD!

- Keep the area around the battery well-ventilated. While the engine is running or the battery is charging, hydrogen gas is produced which can be easily ignited.
- Keep sparks, open flame and any other form of ignition away while the engine is running or battery is charging.
- Failure to comply will result in death or serious injury.

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DANGER



SCALD HAZARD!

- NEVER remove the fill cap if the engine is hot. Steam and hot engine coolant will spurt out and seriously burn you. Allow the engine to cool down before you attempt to remove the fill cap.
- Securely tighten the fill cap after you check the heat exchanger. Steam can spurt out during engine operation if the cap is loose.
- ALWAYS check the level of engine coolant by observing the reserve tank.
- Failure to comply will result in death or serious injury.

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DANGER



FIRE AND EXPLOSION HAZARD!

- Diesel fuel is flammable and explosive under certain conditions.
- NEVER use diesel fuel as a cleaning agent.
- Failure to comply will result in death or serious injury.

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DANGER



FIRE AND EXPLOSION HAZARD!

- Diesel fuel is flammable and explosive under certain conditions.
- NEVER remove the fuel cap with the engine running.
- Failure to comply will result in death or serious injury.

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DANGER



FIRE AND EXPLOSION HAZARD!

- Only use the key switch to start the engine.
- NEVER jump start the engine. Sparks caused by shorting the battery to the starter terminals may cause a fire or explosion.
- Failure to comply will result in death or serious injury.

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DANGER



FIRE AND EXPLOSION HAZARD!

- Diesel fuel is flammable and explosive under certain conditions.
- Only fill the fuel tank with diesel fuel. Filling the fuel tank with gasoline may result in a fire and will damage the engine.
- NEVER refuel with the engine running.
- Wipe up all spills immediately.
- Keep sparks, open flames or any other form of ignition (match, cigarette, static electric source) well away when refueling.
- NEVER overfill the fuel tank.
- Fill the fuel tank. Store any containers containing fuel in a well-ventilated area, away from any combustibles or sources of ignition.
- Failure to comply will result in death or serious injury.

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⚠ DANGER**EXPLOSION HAZARD!**

- **NEVER** check the remaining battery charge by shorting out the terminals. This will result in a spark and may cause an explosion or fire. Use a hydrometer to check the remaining battery charge.
- If the electrolyte is frozen, slowly warm the battery before you recharge it.
- Failure to comply will result in death or serious injury.

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⚠ DANGER**FIRE AND EXPLOSION HAZARD!**

- Diesel fuel is extremely flammable and explosive under certain conditions.
- Before you operate the engine, check for fuel leaks. Replace rubberized fuel hoses every two years or every 2000 hours of engine operation, whichever comes first, even if the engine has been out of service. Rubberized fuel lines tend to dry out and become brittle after two years or 2000 hours of engine operation, whichever comes first.
- Failure to comply will result in death or serious injury.

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DANGER



FIRE AND EXPLOSION HAZARD!

- Diesel fuel is extremely flammable and explosive under certain conditions.
- When you prime the fuel system, operate the fuel priming lever of the mechanical fuel pump several times until the fuel filter cup is filled with fuel.
- NEVER open the air vent valve while the fuel system is being primed. The fuel filter has an internal air bleed port.
- Failure to comply will result in death or serious injury.

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DANGER



CRUSH HAZARD!

- When you need to transport an engine for repair have a helper assist you attach it to a hoist and load it on a truck.
- NEVER stand under hoisted engine. If the hoist mechanism fails, the engine will fall on you, causing serious injury or death.
- Failure to comply will result in death or serious injury.

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