

YANMAR

MARINE DIESEL ENGINE

MODEL : 1GM10(C)

EPA Certified Engine
It meets the low emission standards set by the EPA

OPERATION MANUAL

California Proposition 65 Warning

Diesel engine exhaust and some of its constituents are recognized by the State of California to cause cancer, birth defects, and other reproductive harm.

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Introduction

Tank you for purchasing a YANMAR Marine Diesel Engine.

This Operation Manual describes the operation, maintenance and inspection of the 1GM10(C) Yanmar Marine Diesel Engines.

Read this Operation Manual carefully before operating the engine to ensure that it is used correctly and that it stays in the best possible condition.

Keep this Operation Manual in a convenient place for easy access.

If this Operation Manual is lost or damaged, order a new one from your dealer or distributor.

Make sure this manual is transferred to subsequent owners. It should be considered as a permanent part of the engine and remain so.

Constant efforts are made to improve the quality and performance of Yanmar products, so some details included in this Operation Manual may differ slightly from your engine. If you have any questions about this, please contact your Yanmar dealer or distributor.

The marine gear described in this manual is Yanmar Model KM Series.

Operation Manual (Marine Engine)	Models	1GM10(C)
	Code. No.	42221-556060

With regard to the sail drive, this manual describes lube oil selection and specification only. Please read the Sail Drive Operation Manual, which is supplied with the Sail Drive Unit, for further information.

1. For your safety

1.1 WARNING SYMBOLS

Most operation, maintenance and inspection problems arise due to users' failure to comply with the rules and precautions for safe operation described in this operation manual. Often, users do not understand or recognize the signs of approaching problems. Improper handling can cause burns and other injuries and can result in death.

Be sure to read this operation manual carefully before operating the engine and observe all of the instructions and precautions described in this manual.

Below follow the warning signs used in this manual. Pay special attention to parts containing these words and signs.



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



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



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

This sign is also be used to alert against unsafe practices.

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

1.2 SAFETY PRECAUTIONS

(Observe these instructions for your own safety!)

Precautions for Operation



Filler Cap of Fresh Water Tank

Never open the cap of the fresh water tank while the engine is still hot. Steam and hot water will spurt out and burn you seriously. Wait until the temperature of the fresh water tank has dropped, wrap a cloth around the filler cap and loosen the cap slowly. After inspection, refasten the cap firmly.

1. For your safety

⚠ DANGER



002528-00B

Battery

Never smoke or permit sparks near the battery, because it may emit explosive hydrogen gas. Place the battery in a well-ventilated place.

⚠ DANGER

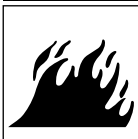


002529-00B

Fuel

Use only diesel oil. Never use other fuels, including gasoline, kerosene, etc., because they could cause a fire. The wrong fuel could also cause the fuel injection pump and injector to fail due to lack of proper lubrication. Be sure to check that you have selected the correct diesel fuel before filling the fuel tank.

⚠ WARNING



002530-00B

Fire Prevention

Be sure to stop the engine and confirm that there are no open flames in the vicinity before supplying fuel. If you do spill fuel, wipe such spillage carefully and dispose of the wiping materials properly. Wash your hands thoroughly with soap and water.

Never place oil or other flammable material in the engine room.

Install a fire extinguisher near the engine room, and familiarize yourself with its use.

⚠ WARNING



002531-00B

Exhaust Gas

Exhaust gas contains poisonous carbon monoxide and should not be inhaled.

Be sure to install ventilation ports or ventilators in the engine room and ensure good ventilation during engine operation.

⚠ WARNING



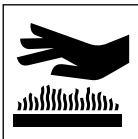
002532-00B

Moving Parts

Do not touch or let your clothing get caught in the moving parts of the engine, such as the front drive shaft, V-belt or propeller shaft, during engine operation. You will be injured.

Never operate the engine without the covers on the moving parts.

⚠ CAUTION



002533-00B

Burns

The whole engine is hot during operation and immediately after stopping. The exhaust manifold, exhaust pipe and high pressure fuel pipe are very hot. Never touch these parts with your body or clothing.

1. For your safety

⚠ WARNING



002534-00B

Alcohol

Never operate the engine while you are under the influence of alcohol. Never operate the engine when you are ill or feeling unwell.

SAFETY PRECAUTIONS FOR INSPECTION

⚠ DANGER



002535-00B

Battery Fluid

Battery fluid is dilute sulfuric acid. It can blind you if it gets in your eyes, or burn your skin. Keep the fluid away from your body. If you touch it, wash it off immediately with a large quantity of fresh water and call your doctor for treatment.

⚠ WARNING



002536-00B

Fire by Electric Short-Circuits

Always turn off the battery switch before inspecting the electrical system.

Failure to do so could cause short-circuiting and fires.

⚠ WARNING



002532-00B

Stop the engine before servicing

Stop the engine before you service it.

Turn the battery switch off. If you must inspect while the engine is in operation, never touch moving parts. Keep your body and clothing well clear of all moving parts.

⚠ CAUTION



002533-00B

Scalds

If extracting oil from the engine while it is still hot, don't let the oil splash on you.

Wait until the temperature has dropped before extracting cooling water

from the engine. Don't let it splash on you.

⚠ DANGER

002537-00B

Forbidden Modifications

Never release the limiting devices such as the engine speed limit, fuel injection limit, etc.

Modification will impair the safety and performance of the product and shorten product life.

Also note that any troubles arising from modification are not covered by our warranty.

⚠ DANGER

002537-00B

Precautions for Treating Waste

Never dispose of waste oil or other fluid in a field, sewer, river, or the sea. Treat waste matters safely observing regulations or laws.

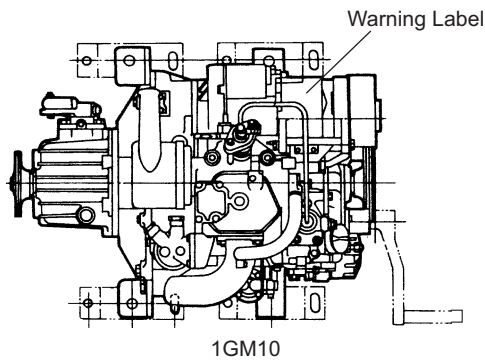
Ask a waste recovery company to collect it.

1. For your safety

SAFETY PRECAUTIONS FOR INSPECTION

1.3 WARNING LABELS

To insure safe operation, warning device labels have been attached. Their location is shown below and they should always be visible. Please replace if damaged or lost.



Part Code No.
128296-07350
002539-00E

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