YANMAR

HINSHI-H10012

SERVICE MANUAL

YSG-E

HINSHI-H10-012

YANMAR

SERVICE MANUAL

GASOLINE GENERATOR

MODEL YSG-E series

YSG1700E-5B·YSG2700E-5B·YSG3700E-5B
YSG5500E-5(E)B·YSG6600TE-5(E)B

YANMAR DIESEL ENGINE CO.,LTD.

				Document No.	HINSHI-H10-012
History of Correction				Page No.1	1
Manual Name:		YANMAR SERVICE MANUAL FOR GASOLINE GENERATOR YSG-E Series			
Engine Model:		YSG1700 · 2700 · 3700E-5B · 5500E-5(E)B · 6600TE-5(E)B			
No. of Correction	Date of Correction	Cause for Correction	Outline of Correction	Corrected Item Number.	Corrected by:

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Introduction

This manual describes the handling and maintenance for the YANMAR gasoline generator, YSG-E series.

Please use this manual to help you make necessary adjustments accurately, safely, and speedily to maintain your generator in good working condition. Details on operation of the engine can be found in the service manual for the YANMAR HINSHI-H10-020 (air-cooled gasoline engine GA series), and should be used together with this manual which explains the generator. In order to improve the quality of your generator, you will be notified of any modifications which have been made.

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1. FOR SAFE OPERATION

1—1 Warning Symbols

- Most accidents are caused by failing to observe basic safety rules and precautions. To prevent accidents, it is important to recognize the signs of approaching problems, and eliminate the problems in the early stage before they can cause accidents. Please read this manual carefully before starting repairs or maintenance to fully understand safety precautions and appropriate inspection and maintenance procedures. Attempting a repair or maintenance job without sufficient knowledge may cause an unexpected accident.

- It is impossible to cover every possible danger in repair or maintenance in the manual.
  Sufficient consideration for safety is required in addition to the matters marked ⚠CAUTION.
  Especially for safety precautions in a repair or maintenance job not described in this manual, receive instructions from a knowledgeable leader.

- Safety marks used in this manual and their meanings are as follows :

⚠ **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.**

- Any matter marked 【NOTICE】 in this manual is especially important in servicing. If not observed, the product performance and quality may not be guaranteed.

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1—2 Precautions for Safe Servicing (Always observe for safe service)

(1) Service Shop (place)

⚠ WARNING

● Place allowing sufficient ventilation

Jobs such as running the generator, welding parts, and polishing paint with sandpaper should be done in a well-ventilated place.



【Failure to Observe】

Very dangerous for human body due to the possibility of inhaling poisonous gas or dust.

⚠ CAUTION

● Sufficiently wide and flat place

The floor space of the service shop for inspection and maintenance should be sufficiently wide and flat without any holes.

【Failure to Observe】

An accident such as a violent fall may be caused.

⚠ CAUTION

● Clean, orderly arranged place

No dust, mud, oil or parts should be left on the floor surface.

【Failure to Observe】

An unexpected accident may be caused.

⚠ CAUTION

● Bright, safety illuminated place

The working place should be illuminated sufficiently and safely.

For a job in a dark place where it is difficult to see, use a portable safety lamp.

The bulb should be covered with a wire cage for protection.



【Failure to Observe】

The bulb may be broken accidentally causing ignition of leaking oil.

⚠ CAUTION

● Place equipped with a fire extinguisher

Keep a first aid kit and fire extinguisher close at hand in preparation for fire emergencies.



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(2) Working Wear

⚠ CAUTION



● Wears for safe operation

Wear a helmet, working clothes, safety shoes and other safety protectors suited to the job. It is especially important to wear well-fitting work clothes.

【Failure to Observe】

A serious accident such as trapping by a machine may occur.

(3) Tools to be Used

⚠ WARNING

● Appropriate holding and lifting

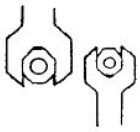
Never operate when the engine is supported with blocks or wooden pieces or only with a jack.

To lift and hold the engine, always use a crane with a sufficient allowance in limit load or a rigid jack.

【Failure to Observe】

A serious accident may occur.

⚠ WARNING



● Use of appropriate tools

Use tools appropriate for the jobs to be done. Use a correctly sized tool for loosening or tightening a machine part.

【Failure to Observe】

A serious injury or engine damage may occur.

(4) Use of Genuine Parts, Oil and Grease

⚠ CAUTION



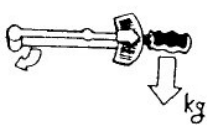
● Always use genuine parts.

【Failure to Observe】

Shortening of engine life or an unexpected accident may arise.

(5) Bolt and Nut Tightening Torque

⚠ WARNING



● Always tighten to the specified torque if designated in the manual.

【Failure to Observe】

Loosening or falling may cause parts damage or injury.

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(6) Operation of Gasoline Generator

⚠ WARNING



• Harness short-circuit(Electric starting)

Disconnect the battery negative ⊖ terminal before starting the service job.

【Failure to Observe】

Short-circuiting of a harness may occur to start a fire.

⚠ WARNING



• Battery charging(Electric starting)

Since flammable gas is generated during battery charging, keep anything which could cause a fire away from the battery.

【Failure to Observe】

Explosions may occur.

⚠ WARNING



• Battery electrolyte(Electric starting)

Since the electrolyte is diluted sulfuric acid, do not let it be splashed onto the clothes or skin.

【Failure to Observe】

The clothes or skin may be burnt.

⚠ WARNING



• Supplying Fuel

Keep cigarettes, matches, etc. away from the area while supplying fuel.

【Failure to Observe】

Fires and explosions may result.

⚠ WARNING



• Hot parts.

Do not touch the engine while it is running, or immediately after it is stopped.

【Failure to Observe】

Burns may be caused by touching a hot part.

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