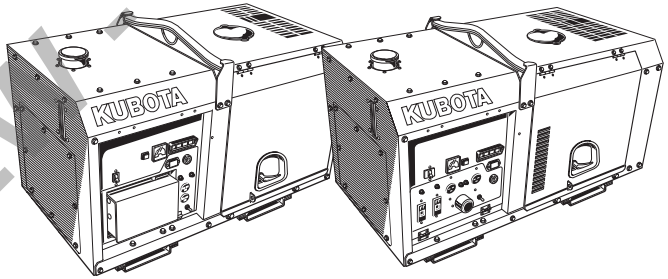
OPERATOR'S MANUAL

ENGLISH

KUBOTA

DIESEL GENERATOR

GL6000-STD · GL6000-AUS
GL7000-USA · GL7000-USA-TM · GL7000-STD
GL9000-STD · GL9000-AUS
GL11000-USA · GL11000-USA-TM · GL11000-STD



D-2396 D-2397

G3102-8916-3

READ AND SAVE THIS BOOK

Download full manual at youfixthis.com

Kubota

REVIEW 1 YOUFIXTHIS.COM

ENGLISH

CONTENTS

⚠SAFETY PRECAUTIONS 1
SERVICING OF GENERATOR 1
SPECIFICATION 2
NOMENCLATURE 4
GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLE 8
PREPARATION TO SUPPLY THE ELECTRIC POWER 10
CONNECTING THE LOAD 12
PRE-OPERATION CHECK 16
OPERATING THE GENERATOR 19
SERVICE INTERVALS 23
PERIODIC SERVICE 25
TRANSPORTING / STORAGE 37
TROUBLESHOOTING 38
AUTOMATIC START/STOP UNIT (A S/S UNIT) 40
WIRING DIAGRAM 41

REVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

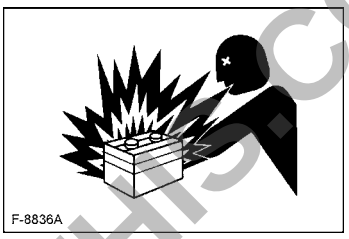
SAFETY PRECAUTIONS

- **To operate the machine safely, be sure to follow the instructions below.**

DANGER

To avoid personal injury:

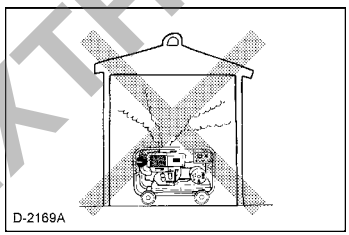
- **Hazard of being caught up in the machine: Do not touch any rotating parts.**
- **Do not use or charge the battery if its fluid level stands below the LOWER mark.**
  Otherwise, the component parts may deteriorate earlier than expected, which may shorten the service life or cause an explosion. Immediately, add distilled water until the fluid level is between the UPPER and LOWER levels. (for only refillable battery)

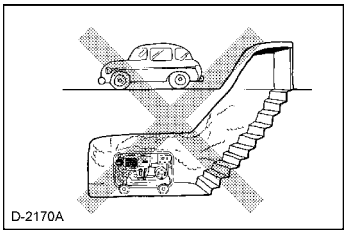

F-8836A

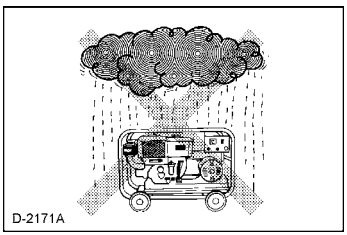
WARNING

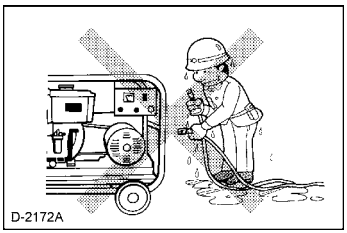
To avoid personal injury:

- **Exhaust gas poisoning hazard: Do not use the machine in any poorly-ventilated place such as indoors and tunnels.**
- **Exhaust gas poisoning and fire hazard: Do not direct the exhaust to people and buildings.**
- **Electric shock hazard: Do not touch the machine with wet hands.**
- **Electric shock hazard: Do not touch the terminals and sockets while the machine is running.**
- **Electric shock and injury hazard: Do not check and service the machine while it is running.**
- **Electric shock and injury hazard: Do not tamper with the machine.**
- **Fire hazard: Flames prohibited. Keep the machine more than 1 m(3 feet) away from flammable materials.**
- **Electric shock hazard: Do not use the machine in the rain.**


D-2169A


D-2170A


D-2171A


D-2172A

REVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SPECIFICATION

GENERATOR							
Model	Unit	GL6000		GL7000			
		–STD	–AUS	–USA	–USA-TM	–STD	
Design	—	Salient-pole, revolving-field AC generator (AVR system with separate and self-excitation brush)					
Frequency	Hz	50		60			
Rated Output (COP)	kVA	5.5		6.5			
	kW	5.5		6.5			
Rated Voltage	V	220	240	120/240		110/220	
Rated amperage	A	25	22.9	54.2/27.1		59.1/29.5	
Phase & Wire	ø-W	1-2		1-4			
Power Factor	%	100					
No. of Poles	—	2					
Insulation	—	Rotor coil: Class F, Stator coil: Class B					
Voltage Regulation	%	5 (No load to full load)					
Type of Coupling	—	Direct coupled					
DIESEL ENGINE							
Model	—	Z482					
Design	—	Vertical, water-cooled, 4-cycle diesel engine					
No. of cylinders	—	2					
Bore × stroke	mm (in.)	ø 67 × 68 (2.6 × 2.7)					
Displacement	L (cu. in.)	0.479 (29.2)					
Engine speed	rpm	3000		3600			
Lubricating Oil	—	API service class CD or higher					
Oil capacity	L (U.S.gal.)	2.2 (0.58)					
Coolant capacity	L (U.S.gal.)	3.7 (0.98)					
SET							
Fuel	—	Diesel fuel No. 2 (ASTM D975)					
Fuel consumption (at full load)	L (U.S.gal.)/h	2.4 (0.63)		2.7 (0.71)			
Fuel tank capacity	L (U.S.gal.)	28 (7.4)					
Continuous Operating Hours	hrs	12		10			
Battery (V × Ah/5Hr)	—	38B20R (12V × 28Ah)					
Starting System	—	Electric					
L × W × H	mm (in.)	1066 × 618 × 698 (42.0 × 24.3 × 27.5)					
Approx Net Wt.	kg (lbs.)	235 (518)					
Output Terminal	—	○	—	—	○	○	
Output Receptacle	—	○	○	○	○	○	
Emergency Stop System	—	In case of abnormal : Oil pressure, water temperature					

REVIEW - YOUFIXTHIS.COM

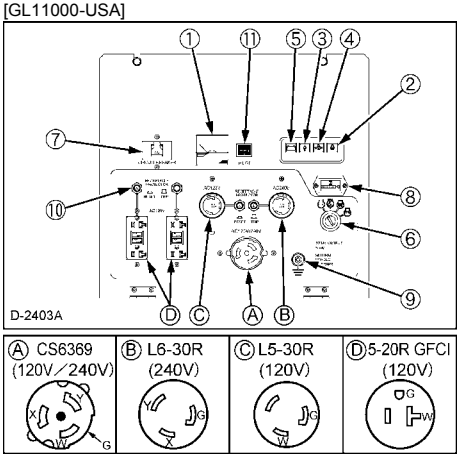
Download full manual at youfixthis.com

■ Control Panel

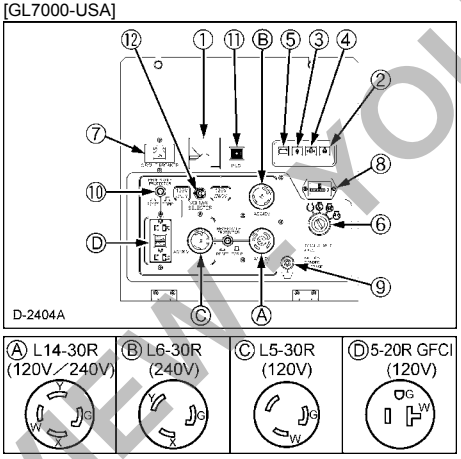
Standard Model

◆ 1 Phase Type
(120/240V Dual voltage Type)

[GL11000-USA]



[GL7000-USA]



(1) A.C. Voltmeter
(2) Glow timer lamp
(3) Water temperature lamp
(4) Oil pressure lamp
(5) Battery charge lamp
(6) Starter switch (key)
(7) Circuit breaker
(8) Hour meter
(9) Ground terminal
(10) Protector (Receptacle)
(11) Pilot lamp
(12) Full power switch

(A) Receptacle
(B) Receptacle
(C) Receptacle
(D) Receptacle

REVIEW OF YOUFIXTHIS.COM

Download full manual at youfixthis.com

OPERATING THE GENERATOR

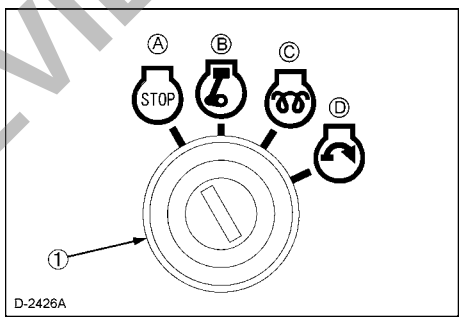
⚠ CAUTION

To avoid personal injury:

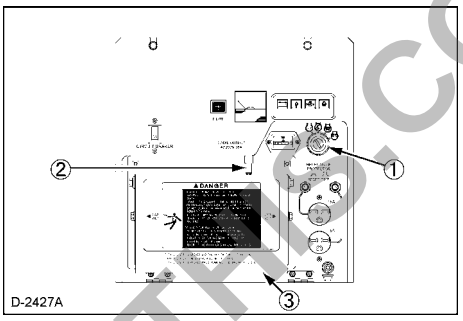
- **Read "⚠SAFETY PRECAUTIONS" in the front of this manual.**
- **Read the danger, warning and caution labels located on the generator.**
- **To avoid the danger of exhaust fume poisoning, do not operate the engine in a closed building without proper ventilation.**
- **Always turn OFF the circuit breaker before starting the generator.**
- **Turn OFF all switches on the electrical devices.**
- **Check the wiring and connections of the electrical devices before starting the machine.**
- **DO NOT touch the live parts during operation.**

■ SAFETY DEVICES

1. Terminal cover is equipped with safety devices to detect the opening and/or closing condition of cover.
2. Safety switch (2) is located on the terminal cover.
   If you turn the key switch to "START" with the terminal cover open, the starter of engine will not activate.
3. Turn the key switch to "STOP" to close the terminal cover and then restart the engine.
4. If you open the terminal cover while the engine is running, the emergency stop system will stop the engine.
   To maintain the battery's life as much as possible, turn the key switch to the "STOP" position.



D-2426A



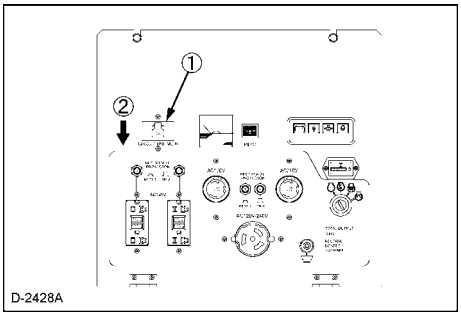
D-2427A

(1) Starter switch (Key)
(2) Safety switch
(3) Terminal cover

(A) "STOP"
(B) "ON"
(C) "PREHEAT"
(D) "START"

■ Starting the Engine

1. **Turn OFF all switches on the electrical devices.**
2. **Turn OFF the circuit breakers on the control panel.**



D-2428A

(1) Circuit breaker
(2) "OFF"

REVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SERVICE INTERVALS

Observe the following for service and maintenance.
The lubricating oil change intervals listed in the table below are for Classes CF, CE and CD lubricating oils of API classification with a low-sulfur fuel in use. If the CF-4 or CG-4 lubricating oil is used with a high-sulfur fuel, change the lubricating oil at shorter intervals than recommended in the table below depending on the operating condition.

No.	Check point	Interval										Ref. page		
		First 50 hours	Every 50 hours	Every 100 hours	Every 200 hours	Every 400 hours	Every 500 hours	Every 800 hours	Every 1500 hours	Every 3000 hours	Every 1 year	Every 2 years			
1	Check of fuel pipes and clamp bands		○										26		@
2	Change of engine oil	◎		○									28	◎	
3	Cleaning of air cleaner element			○									29	*1	@
4	Check of battery electrolyte level			◎							○		33		
5	Check of fan belt tension			○									36		
6	Check of radiator hoses and clamp bands				○								32		
7	Check of intake air hose				○								—		@
8	Replacement of oil filter cartridge	◎			○								28	◎	
9	Replacement of fuel filter cartridge or element					○							—		@
10	Cleaning of fuel filter			○									27		
11	Cleaning of water jacket (radiator interior)						○						32		
12	Replacement of fan belt							○					36		
13	Check of valve clearance							○					—		
14	Replacement of air cleaner element										○		29	*2	@
15	Check of damage in electric wiring and loose connections										○		35		
16	Check of fuel injection nozzle injection pressure								○				—	*3	@
17	Check of injection pump									○			—	*3	@
18	Replacement of fuel pipes, fuel gauge and clamp bands											○	26	*3	@
19	Replacement of radiator hoses and clamp bands											○	32		
20	Replacement of battery											○	33		
21	Change of radiator coolant (L.L.C.)											○	31		
22	Replacement of intake air hose											○	—	*4	@

IMPORTANT :

- The jobs indicated by ◎ must be done after the first 50 hours of operation.

*1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
*2 After 6 times of cleaning.
*3 Consult your local KUBOTA Dealer for this service.
*4 Replace earlier if necessary.

- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S. EPA non-road emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
  Please see the Warranty Statement in detail.
- When the battery is used for less than 100 hours in a year, check its electrolyte yearly. (for refillable battery's only)

REVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TROUBLESHOOTING

⚠ CAUTION

To avoid personal injury:

- **Always perform any check at "STOP" condition except for special check in which operation is required.**
- **Do not touch the charging section during operation.**
- **Keep your hands and body away from the rotating parts during operation.**

If the machine does not function properly, use the following chart to identify and correct the cause.

■ Generator

Trouble	Cause	Countermeasure
After electrical equipment connected, generator does not operate.	Circuit breaker is off.	• Turn breaker "ON".
	Contact of output terminal and socket is bad.	• Reinstall.
	Malfunction of electrical equipment	• Request repair.
Not generating	Bad contact of brush	• Check, cleaning and maintenance of contact face and contact force of brush and slip ring. (⚠ Danger: All works should be performed when stopped)
Circuit breaker can not be operated.	Overload	• Reduce load.
	Short circuit of load circuitry connected to output section	• Repair load.
Output cannot be obtained. **• Rotation goes slow.** **• Voltage drops.** **• Breaker turns off.**	Initial current is too much. (e.g. motor load)	• Reduce load.
	Overload	• Reduce load.
Engine indicates loaded condition.	Short circuit of generator wiring	• Stop immediately. Request for repair.

■ Easy checker

Trouble	Cause	Countermeasure
When the key is turned, the lamp doesn't light on.	Bulb is defective.	• Replace
	Component or wiring defect of charging circuit	• Check, repair
The water temperature lamp lights on when operating.	Engine overheating.	• See "Precaution overheating" in "Radiator" section. (See page 97)
	Water temperature sensor faulty.	• Replace the water temperature sensor.
	Water temperature sensor wiring faulty.	• Repair the wiring.
The oil pressure lamp lights on when operating.	Insufficient engine oil.	• Add engine oil.
	Lubricating system in trouble.	• Check the system.
	Oil pressure sensor faulty.	• Replace the sensor.
	Oil pressure sensor wiring faulty.	• Repair the wiring.
The battery charge lamp lights on when operating.	Poor contact of sub winding.	• Connect tightly.
	Sub winding problem.	• Check the sub winding.

REVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 8 of 62 pages

The full manual includes:

- All 62 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Kubota GL6000-STD, GL6000-AUS, GL7000-USA, GL7000-USA-TM, GL7000-STD, GL9000-STD, GL9000-AUS, GL11000-USA, GL11000-USA-TM, GL11000-STD Operator Manual



Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual