

- Thank you for purchasing a generator.
- This manual covers operation and maintenance of the generator.
- We reserve the right to make changes at anytime without notice and without taking any obligation.
- This publication can't be reproduced without written permission
- Pay special attention to the following words:
- If a problem should arises or if you have any questions about your product, consult an authorized dealer.

! WARNING this generator is designed to give safe and Dependable service if operated according to instructions. Read the Owner's Manual before operating the generator. Failure to do so could result in personal injury or equipment damage.

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1. SAFETY INSTRUCTIONS



·Generator is designed to give safe and dependable service if operated according to instructions.

Read the Owner's Manual before operating the generator.

Failure to do so could result in personal injury or equipment damage.



·Exhaust gas is poisonous. Never run the generator in an enclosed area.

Be sure to provide an adequate ventilation environment.

When in a ventilated area still observed the generator.



·Stop the engine before refueling

·Gasoline is extremely flammable and explosive under certain conditions, Refuel in a ventilated area.

·Keep away from cigarette, smoke and sparks when refueling.

Always refuel in a well-ventilated location.

·Wipe up spilled gasoline at once.



·The muffler will become very hot during operation and remains hot for awhile after the engine has been stopped.

Do not to touch the muffler while it is hot.

Let the engine cool down before moving the generator indoors.

(Pay attention to the warning marks attached to the generator.)



·Connections from standby power to a building's electrical system must be made by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections can allow electrical current to be back into the utility lines. Such back feed may electrocute utility company workers, others who contact the lines during a power outage, and when utility power is restored, the generator may explode, burn, or cause fires on the building's electrical system.

! WARNING

·Always make a pre-operation inspection (page 8) before you start the engine.

·Place the generator at least 1m (3ft) away from buildings or other equipment during operation.

·Operate the generator on a level surface.

 If the generator is tilted, fuel spillage may result.

·Know how to stop the generator quickly and understand the operation of all the controls. Never operate the generator without proper instructions.

·Keep children and pets away from the generator when it is in operation.

·Keep away from rotating parts while the generator is running.

·The generator may provide electrical shocks when misused; do not operate with wet hands.

·Do not operate the generator in rain or snow and do not let it get wet.

2. COMPONENT IDENTIFICATION



CHOKE LEVER

FUEL CAP LEVER

FUEL CAP

CONTROL PANEL

FUEL COCK

LEFT SIDE MAINTENANCE COVER

STARTER GRIP

ENGINE SWITCH



SPARK PLUG MAINTENANCE COVER

MUFFLER

CONTROL PANEL



OIL ALERT INDICATOR LIGHT

OUTPUT INDICATOR LIGHT

OVERLOAD INDICATOR LIGHT

DC RECEPTACLE

DC CIRCUIT PROTECTOR

ENGINE SWITCH

EARTH

AC RECEPTACLE

3 . PRE-OPERATIONCHECK

Be sure to check the generator on a level surface when the engine doesn't work.

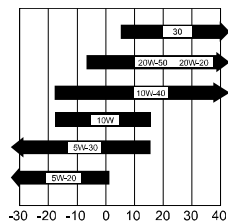
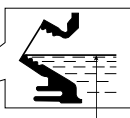
① Check oil level.

Loosen the cover screw and remove the left side maintenance cover.

Remove the oil filler cap, and wipe the dipstick with a clean rag. Check the oil level by inserting the dipstick in the filler hole without screwing it in.

If the oil level is below the end of the dipstick, refill the recommended oil

(SE 10E-30) 0.25 liter.



UPPER LEVEL

OIL FILLER HOLE

OIL FILLER CAP

Surrounding temperature

Select the engine oil according to the surrounding temperature.

CAUTION:

Using nondetergent oil or 4-stroke engine oil could shorten the engine's service life.

Please use high-detergent, premium quality 4-stroke engine oil.

Running the engine with insufficient oil can cause serious engine damage.

NOTE: The Oil Alert System will automatically stop the engine before the oil level falls below the safe limit.. However, to avoid the inconvenience of an unexpected shut-down, it is still advisable to inspect the oil level regularly.

② Check the fuel level.

Unleaded or lowleaded is preferred to minimize combustion chamber deposits.

If the fuel level is low, refuel the fuel tank until the level specified.

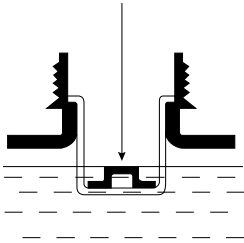
Never use an oil/gasoline mixture or dirty gasoline.

Avoid getting dirt, dust or water in the fuel tank.

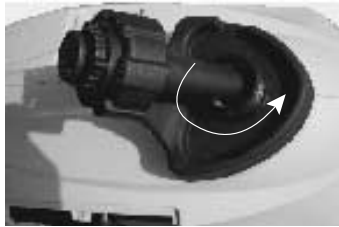
After refueling, tighten the fuel filler cap securely.

Fuel tank capacity: 3L

UPPER LIMIT MARK



FUEL FILLER CAP



OPEN

③ Check the air cleaner.

Check the air cleaner element to be sure it is clean and in good condition.

Loosen the cover screw and remove the left side maintenance cover.

Press the latch tab on the top of the air cleaner body, remove the air cleaner cover, check the element.

Clean or replace the element if necessary.

CAUTION: never run the engine without opening the air cleaner. Rapid engine wear will result from contaminants, such as dust and dirt, being drawn through the carburetor, into the engine.



COVER SCREW
LEFT SIDE
MAINTENANCE COVER



CLEANER COVER



AIR CLEANER BODY
AIR CLEANER ELEMENT

4. STARTING THE ENGINE

Before starting the engine, disconnect the load from the DC terminals.

- ① Turn the fuel cap lever fully clockwise to the ON position.

NOTE: Turn the fuel cap lever to the OFF position then transport the generator

- ② Turn the engine switch to the ON position.

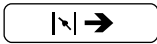
Tune the fuel switch to ON position.



FUEL CAP LEVER

③ Move the choke lever to the CLOSED position.

NOTE: Do not use the choke when the engine is warm or the air temperature is high.



CLOSED



CHOCK LEVER

CLOSED

④ Pull the starter grip until resistance is felt, then pull the starter grip briskly toward the arrow as shown below.

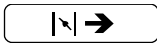
CAUTION: Do not allow the starter grip to snap back. Return it slowly byhand.



STARTER GRIP

⑤ Move the choke lever to the OPEN position as the engine warms up.

NOTE: If the engine doesn't work by starting several times, check the engine oil level before trouble shooting other areas.



CLOSED



CHOKE LEVER

5. GENERATOR USE

! WARNING

To prevent electrical shock from faulty appliances, the generator should be grounded.

Connect with a heavy wire between the generator ground terminal and an external ground source.

Connections from standby power to a building's electrical system must be made by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections can make electrical current from the generator to back feed into the utility lines. Suck back feed may electrocute utility company workers or others who come into contact with the lines during a power outage, and when utility power is restored the generator may explode, burn, or cause fires in the building's electrical system.



GROUND TERMINAL

EARTH MARK

① AC applications

start the engine and make sure the output indicator light (green) is on.

Make sure that the appliance to be used is switched off, and plug in the appliance.



OIL ALERT INDICATOR LIGHT

OUTPUT INDICATOR LIGHT

AC RECEPTACLE

Output and Overload indicators

The output indicator light (green) will remain ON during operating conditions.

If the generator is overloaded (more than 1.0K VA), or if there is short in the connected appliance, the output indicator light (green) will go OFF, the overload indicator light (red) will go ON and current to the connected appliance will be shut off.

Stop the engine if the overload light (red) comes ON and investigate the overload source, start it after the overload light is OFF.

·Before connecting on appliance to the generator, check that it is in good order, and its electrical rating does not exceed the power of the generator.

Then connect the power cord of the appliance, and start the engine.

② DC application

The DC receptacle may be used for charging 12 volt automotive-type batteries only.

- In DC operation, turn the switch to the OFF position.
 - To prevent from creating a spark near the battery, connect charging cable first to the generator, then to the battery. Disconnect cable first then the battery.
 - Connect the positive battery terminal to the positive charging cord.
- Do not reverse the charging cables, or serious damage to the generator and battery may occur.

NOTE:

- The DC receptacle may be used while the AC power is in use, the switch should turn :OFF”
- An overloaded DC circuit will trip the DC circuit protector (push button) wait a few minutes before pushing in the circuit protector before resuming operation.



DC CIRCUIT PROTECTOR

ON

OFF

PLUG

! WARNING

The battery gives off explosive gases; keep sparks, flames and cigarettes away.

Provide adequate ventilation when charging.

The battery contains sulfuric acid (electrolyte). Touch skin or eyes may cause severe burns. Wear protective clothing and a face shield.

- If electrolyte touches your skin, flush with water.

- If electrolyte gets into your eyes, flush with water for at least 15 minutes and go to see the doctor.

Electrolyte is poisonous.

- If swallowed, drink large quantities of water or milk and follow with magnesia or vegetable oil and call a physician.

KEEP CHILDREN AWAY.

③ OIL ALERT SYSTEM

The Oil Alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase falls below a safe limit, the Oil Alert system will automatically shut down the engine. The Oil Alert indicator light (red) will come on when you operate the starter, and the engine will not run. If this occurs, add engine oil.



OIL ALERT INDICATOR LIGHT (RED)

6. STOPPING THE ENGINE

To stop the engine in an emergency, turn the engine switch to the STOP position.

IN NORMAL CONDITION:

- Switch off the connected equipment and pull out the inserted plug.



PLUG

- Turn the engine switch to the STOP position.
Turn the fuel switch to the OFF position.



STOP

Turn the fuel cap lever counterclockwise to the "OFF" position.

CAUTION: Be sure the fuel cap lever and the engine switch are "OFF" when stopping , transporting and/or storing the generator.



FUEL CAP LEVER

OFF

ON

6.MAINTENANCE TIPS & INSTRUCTIONS

The purpose of the maintenance and adjustment schedule is to keep the generator in the best operating condition. inspect or service as scheduled in the table below.

! WARNING

Shut off the engine before performing any maintenance. If the engine has to be running, make sure the area is well ventilated. The exhaust contains poisonous carbon monoxide gas.

CAUTION:

Use genuine parts or their equivalent parts. The use of replacement parts which are not of equivalent quality may damage the generator.

Maintenance Schedule

REGULAR SERVICE PERIOD (1) Perform of every indicated month or operating hour interval, whichever occurs first.		EACH USE	FIRST MONTH OR 10 HRS	EVERY 3 MONTHS OR 50 HRS	EVERY 6 MONTHS OR 100 HRS	EVERY YEAR OR 300 HRS
ITEM						
Engine oil	Check	○				
	Change		○			
Air cleaner	Check	○				
	Clean		○ (2)			
Spark plug	Clean-adjust				○	
Valve clearance	Check-adjust					○ (3)
Fuel tank and strainer	Clean					○ (3)
Fuel line	Check	Every 2 years (Replace if necessary) (3)				

NOTE: (1) Run several hours to determine proper maintenance.

(2) Maintenance is required more frequently when used in dusty areas.

(3) These items should be serviced by an authorized dealer, unless the owner has the proper tools and is mechanically proficient.

See the owner's Manual.

① CHANGING OIL

Drain the oil while the engine is still warm to drain the oil as soon as possible.

CAUTION: Make sure to turn the engine switch and the fuel cap lever OFF before draining.

·Loosen the cover screw and remove the left side maintenance cover.

·Remove the oil filler cap.

·Drain dirty oil into a container thoroughly

·Refill with the recommended oil, and check the oil level.

·Reinstall the left side maintenance cover and tighten the cover screw securely.

ENGINE OIL CAPACITY: 0.50L



LEFT SIDE

MAINTENANCE COVER



NOTE: Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you assort the oil and make an utilization of it's unavailable elements. Do not throw in the trash or pour it on the ground.



OIL FILLER HOLE

OIL FILLER CAP

② AIR CLEANER SERVICE

A dirty air cleaner will restrict air flowing into the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty areas.

! WARNING Do not use gasoline or low flash point solvents for cleaning. They Are flammable and explosive under certain conditions.



COVER SCREW

LEFT SIDE MAINTENANCE COVER



AIR CLEANER ELEMENT



AIR CLEANER GAP



ELEMENT

CARTION: Never run the generator without the air cleaner. Rapid engine wear may result.

·Loosen the cover screw and remove the left side maintenance

cover.

·Press the latch tab on the top of the air cleaner body, and remove the air cleaner cover.

·Wash the element in a non-flammable or high flash point solvent and dry it thoroughly.

·Soak the element in clean engine oil and squeeze out the excess oil.

·Reinstall the air cleaner element and the cover.

·Reinstall the left side maintenance cover and tighten the cover screw securely.

□ SPARK PLUG SERVICE

RECOMMENDED SPARK PLUG: CR5H88 (NGK) U16FSR-UB (DENSO)

To ensure proper engine operation, the spark plug must be properly gapped

and free of deposits.

·Remove the spark plug maintenance cover.



SPARK PLUG

MAINTENANCE

COVER

- Remove the spark plug cap.
- Clean any dirt around the spark base.
- Use the wrench to remove the spark plug.



SPARK PLUG CAP

HANDLE BAR

PLUG WRENCH

- Visually inspect the spark plug. Discard it if the insulator is cracked
Clean the spark plug with a wire brush if it can be reused.
- Measure the plug gap with a feeler gauge.
The gap should be 0.6-0.7mm, correct as necessary by carefully bending the side electrode.
- Install the spark plug carefully, by hand, to avoid cross-threading.
- After a new spark plug has been seated by hand, it should be tightened 1/2 turn with a wrench to compress its washer.
If a used plug is being reinstalled, it should only require 1/8 to 1/4 turn after being seated.
- reinstall the spark plug cap.
Reinstall the spark plug maintenance cover.

CARTION:

- The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the generator.
- Never use spark plug with an improper heat range

8. TRANSPORTING/STORAGE

Make sure to drain the fuel completely during transporting or during storage.

To prevent fuel spillage when transporting or during temporary storage, the generator should be secured upright in its normal operating position, with the engine switch OFF. The fuel cap level turned fully to the "OFF" position.

Avoid direct sunlight when putting the generator on a vehicle.

If the generator is left in an enclosed vehicle for many hours, high temperature inside the vehicle could cause possible explosion.

Do not drive on a rough road for an extended period with the generator board.

If you must transport the generator on a rough road, drain the fuel from the generator before.

Before storing the unit for an extended period:

Be sure the storage area is free of excessive humidity and dust.

Long-term storage (over 30 days) information:

If you need store this engine for a long term over 30 days), please follow the essentials as below:

1. Use the all the gasoline.
2. Let out all the engine oil.
3. Turn off the switches.

9. TROUBLESHOOTING (FAQS)

When the engine will not start:

1. Is there fuel in the tank?

NO

Refill the fuel tank.

2. Is the engine switch on?

NO

Turn the engine switch on.

3. Is the enough oil in the engine?

NO

Add the recommended oil

4. Is there a spark from the spark plug?

NO

Replace the spark plug.

Still No spark

Take the generator to an authorized dealer.

! WARNING

Be sure there is no spilled fuel around the spark plug.

Yes

If the engine still does not start, take the generator to an authorized dealer.

To check:

1. Remove the spark plug cap and clean any dirt around the spark plug.
2. Remove the spark plug and install the spark plug in the plug cap.
3. Set the plug side electrode on the cylinder head to ground.
4. Pull the recoil starter, spark should jump across the gap.



Appliance does not operate:

Is the output indicator light ON?

Is the overload indicator light ON?

Check the electrical appliance or equipment for any defects.

Take the generator to an authorized dealer

Replace the electrical appliance or equipment.

Take the electrical appliance or equipment to an electrical shop for repair.

Shut off and restart the engine.

YES

NO

DEFECTS

NO DEFECTS

No electricity at the DC receptacle:

Is the DC circuit protector on?

Turn the DC circuit protector on.

Take the generator to an authorized dealer.

NO

YES

10. SPECIFICATIONS

ENGINE

Engine type	4-stroke, overhead valve, single cylinder
Displacement	99.3cc
Bore×Stroke	φ58×37.6
Compression ratio	10:1
Engine speed	3000~4800rpm
Cooling system	Forced air
Ignition system	Full transistor
Oil capacity	0.5L
Fuel tank capacity	3L
Spark plug	E7RTC
Noise Level (ISO 8528-10)	<65dB (A)

Generator

AC Output	Rated Voltage (V)	120
	Rated Frequency (Hz)	60
	Rated Output (VA)	1600
	Max Output (VA)	1800

Dimensions and Weight

Length×Width×Weight	530mm×281mm×448mm
Dry weight	21.5Kg

MODEL: IN1800i

4 - stroke **GENERATOR**

GB Instructions for use
Generator
OWNER'S MANUAL



MODEL: IN1800i

4 – stroke

Instructions for use Generator

OWNER'S MANUAL

Inverter Generator