



# GT3500SE POWER

PROFESSIONAL POWER GENERATOR

3300 WATT INVERTER GENERATOR



**perfect-power**  
Guaranteed Pure Sine Wave

Please ensure that you read this manual in full before using your machine and follow the maintenance and operation instructions carefully.


## OPERATING INSTRUCTIONS

## **Contents**

Introduction.....	3
Environmental Protection.....	3
Scope of Product.....	3
Description of Symbols.....	3
Specifications.....	3
Safety Information.....	4
Features & Controls.....	7
Control Functions.....	8
Preparation before Operating.....	10
Operating the Generator.....	12
Maintenance.....	16
Storage.....	20
Troubleshooting.....	21
Parameters.....	22
Electrical Diagram.....	23
Calculating Your Power Needs .....	24
Warranty.....	25

## Introduction

Your new GT POWER Generator will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find your new tool easy and safe to operate, and, with proper care, it will give you many years of dependable service.

 **CAUTION:** Carefully read through this entire Instruction Manual before using your new GT POWER Generator. Take special care to heed the Cautions and Warnings.

Your generator has many features that will make your job faster and easier. Safety, performance, and dependability have been given top priority in the development of this tool, making it easy to maintain and operate.

## Environmental Protection

Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.



## Scope Of Product

This product is suited for home and camping, back-up power, rural and commercial applications.

## Description Of Symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.



Wear hearing protection.  
Wear eye protection.  
Wear breathing protection.



Conforms to relevant standards for electromagnetic compatibility.

## Specifications

AC Output:	230V AC ~ 50Hz
Rated Power:	3000W
Peak Power:	3300W
Phase:	Single
Power Factor:	COS $\phi$ = 1
Displacement:	212cc
Engine:	LC170FD3
Rated Speed:	3100 RPM
Fuel Tank Capacity:	10L
Fuel Type:	Unleaded petrol
Engine Oil Type:	SAE10W30
Operation Noise Level:	65dB
Net Weight:	45kg

## Safety Information

Read this manual carefully and become familiar with your generator. Know its applications, its limitations and any hazards involved.

Throughout this brochure, on tags and decals affixed to the generator, **DANGER**, **WARNING**, **CAUTION** and **NOTICE** marks are used to alert personnel with special instructions about a particular operation that may be hazardous if performed incorrectly, or carelessly. Observe them carefully. Their definitions are as follows:



**DANGER:** indicates a hazard which, if not avoided, will result in death or serious injury.



**WARNING:** indicates a hazard which, if not avoided, could result in death or serious injury.



**CAUTION:** indicates a hazard which, if not avoided, could result in minor or moderate injury.



**NOTE:** covers some practices which may not be related to personal injury.

A running engine gives off carbon monoxide, an odourless, colourless, poison gas. Breathing carbon monoxide could result in death, serious injury, headache, fatigue, dizziness, vomiting, confusion, seizures, nausea or fainting.

- Operate this product **ONLY** outdoors.
- Install a battery operated carbon monoxide alarm near the bedrooms.
- Keep exhaust gas away from entering a confined area through windows, doors, ventilation intakes, or other openings.

- NEVER operate this product inside any building, carport, porch, mobile equipment, marine applications, or enclosure, even if windows and doors are open.



**WARNING:** *Starter cord kickback (rapid retraction) will pull hand and arm toward engine faster than you can let go which could cause broken bones, fractures, bruises, or sprains resulting in serious injury.*

- When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- NEVER start or stop engine with electrical devices plugged in and turned on.



**WARNING:** *Fuel and its vapours are extremely flammable and explosive which could cause burns, fire or explosion resulting in death, serious injury and/or property damage.*

### When Adding or Draining Fuel

- Turn generator engine OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Fill or drain fuel tank outdoors.
- DO NOT overfill tank, Allow space for fuel expansion.
- If fuel spills, wait until it evaporates before starting engine.
- Keep fuel away from sparks, open flames, pilot light, heat, and other ignition sources.
- Check fuel lines, tank, cap and fittings frequently for cracks or leaks. Replace if necessary.
- DO NOT light a cigarette or smoke.

## When Starting Equipment

- Ensure spark plug, muffler, fuel cap and air cleaner are in place.
- DO NOT crank engine with spark plug removed.

## When Operating Equipment

- DO NOT operate this product inside any building, carport, porch, mobile equipment, marine applications or enclosure.
- DO NOT tip engine or equipment at angle which causes fuel to spill.
- DO NOT stop engine by moving choke control to "OFF" position.

## When Transporting or Repairing Equipment

- Transport/move/repair with fuel tank EMPTY or with fuel valve OFF.
- DO NOT tip engine or equipment at angle which cause fuel to spill.
- Disconnect spark plug wire.

## When Storing Fuel or Equipment with Fuel in Tank

- Store away from furnaces, stoves, water heaters, clothes dryers, or other appliances that have light or other ignition source because they could ignite fuel vapours.



**WARNING:** *Generator voltage could cause electrical shock or burn resulting in death or serious injury.*

- Use approved transfer equipment to prevent back feed by isolating generator from electric utility workers.
- When using generator for backup power, notify utility company.

- Use a ground fault circuit interrupter in any damp or highly conductive area, such as metal decking or steel work.
- DO NOT touch bare wires or receptacles.
- DO NOT use generator with electrical cords which are worn, frayed, bare or otherwise damaged.
- DO NOT operate generator in the rain or wet weather.
- DO NOT handle generator or electrical cords while standing in water, while bare-foot, or while hands or feet are wet.
- DO NOT allow unqualified persons or children to operate or service generator.



**WARNING:** *Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death, serious injury and/or property damage. Contact with muffler area could cause burns resulting in serious injury.*

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 5 feet (1.5m) of clearance on all sides of generator including overhead.



**CAUTION:** *Excessively high operating speeds could result in minor injury and/or generator damage. Excessively low speeds impose a heavy load.*

- DO NOT tamper with governor spring, links or other parts to increase engine speeds. Generator supplies correct rated frequency and voltage when running at governed speed.



**WARNING:** *Unintentional sparking could cause fire or electric shock resulting in death or serious injury.*

## When Adjusting or Making Repairs to the Generator

- Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

## When Testing for Engine Spark

- Use approved spark plug tester.
- DO NOT check for spark with spark plug removed.

## Other Safety Precautions



**WARNING:** *Starter and other rotating parts could entangle hands, hair, clothing, or accessories resulting in serious injury.*

- DO NOT connect to a home power system. See “Connecting to a Home Power Supply” on the following page
- NEVER operate generator without protective housing or covers.
- DO NOT wear loose clothing, jewellery or anything that could be caught in the starter or other rotating parts.
- Tie up long hair and remove jewellery.
- DO NOT modify generator in any way.



**NOTE:** *Exceeding generators wattage/ampere capacity could damage generator and/or electrical devices connected to it.*

- DO NOT exceed the generator's wattage/ampere capacity.
- Start generator and let engine stabilise before connecting electrical loads.
- Turn electrical loads OFF and disconnect from generator before stopping generator.



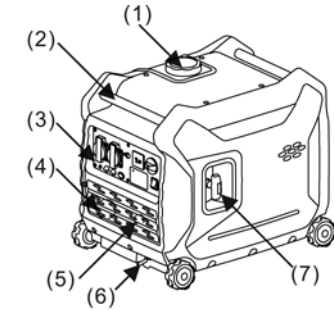
**NOTE:** *Improper treatment of generator could damage it and shorten its life.*

- Use generator only for intended uses.
- If you have questions about intended use, ask dealer or contact local service center.
- Operate generator only on level surfaces.
- DO NOT expose generator to excessive moisture, dust, dirt, or corrosive vapor.
- DO NOT use in the rain.
- DO NOT insert any object through cooling slots.
- If connected devices overheat turn them off and disconnect them from generator.
  - or if electrical output is lost.
  - or if equipment sparks, smokes, or emits flames.
  - or if unit vibrates excessively.

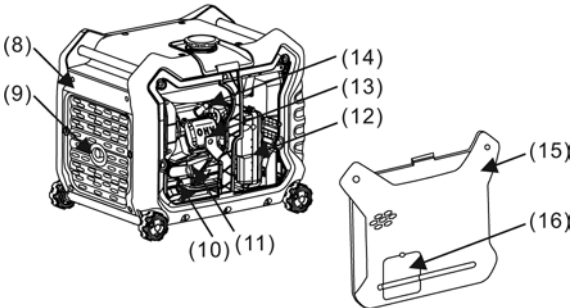
## Features and Controls

Read this Operating Manual and the Safety Rules section before operating your generator. Compare the illustrations with your generator, to familiarise yourself with the locations of various controls and adjustments. Save this manual for future reference.

### Description

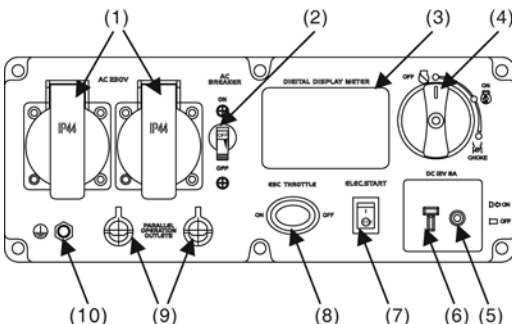


- (1) Fuel tank cap
- (2) Handle
- (3) Control panel
- (4) Inverter cover
- (5) Electric start battery
- (6) Brake
- (7) Recoil starter grip



- (8) Exhaust cover
- (9) Exhaust
- (10) Oil drain bolt
- (11) Oil filler cap
- (12) Air cleaner
- (13) Carburetor
- (14) Spark plug
- (15) Left cover
- (16) Oil observation window

### Control Panel - 230V

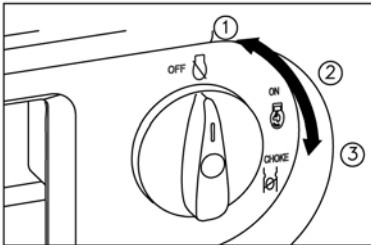


- (1) AC receptacle
- (2) AC circuit breaker
- (3) Digital display meter
- (4) 3 in 1 - Ignition, Fuel, Choke
- (5) DC protector
- (6) DC receptacle
- (7) Electric start switch
- (8) ESC (engine smart control) switch
- (9) Parallel receptacle
- (10) Ground terminal

## Control Functions

### 3 in 1 Switch Knob

1. **Engine/Fuel Valve OFF** means the ignition circuit is switched off, the fuel is switched off and the engine will not run.

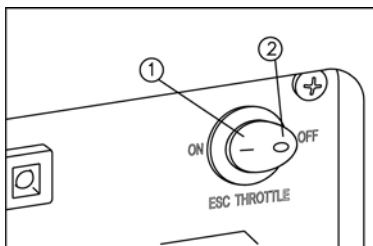


2. **Engine Switch/Fuel Valve ON.** Ignition circuit is switched on, the fuel is switched on and the choke is switched off. The engine can run.
3. **Engine Switch/Fuel valve/Choke ON** Ignition circuit is switched on, the fuel is switched on and the choke is switched on. The engine can be started.

**TIP:** The choke is not normally required to start a warm engine.

### Engine Smart Control

When the ESC switch is turned to “ON”, the economy control unit controls the engine speed according to the connected load. The



results mean better fuel consumption and less noise. When the ESC switch is turned to “OFF”, the engine runs at the rated (3100 r/min) Regardless of whether is a load connected or not.

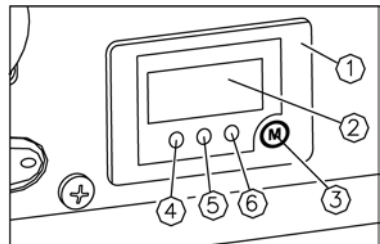


**NOTE:** The ESC switch must be turned to “OFF” when using electric devices that require a large starting current, such as a compressor or a submersible pump.

### Digital Display Meter

#### Normal Operation:

During normal operation, the digital display meter LCD display has 5 functions which are viewed by pressing the operating key (3): Output voltage (V), output current (A), output power (w), total operating hours and current operating time.

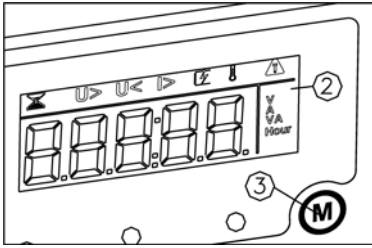


- (1) Multimeter
- (2) Liquid crystal display
- (3) Operating key
- (4) Oil warning light
- (5) Overload indicator light
- (6) AC pilot light

#### Failed Operation:

- U** a: AC over voltage, indicating the character of AC (alternative indication of AC and digit).
- b: DC over voltage, indicating the character of DC (alternative indication of DC and digit).





flickers for a few seconds, the engine oil is insufficient. Add oil and restart.

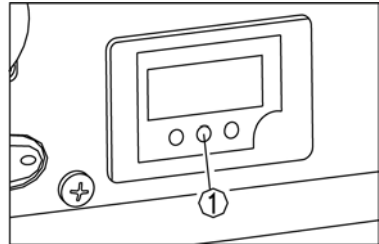
## Overload Indicator Light (Red)

The overload indicator light comes on when an overload of a connected electrical device is detected, the inverter control unit overheats, or the AC output voltage rises.

Then, the AC protector will trip, stopping power generation in order to protect the generator and any connected electric devices. The AC pilot light (Green) will go off and the overload indicator light (Red) will stay on, but the engine will not stop running.

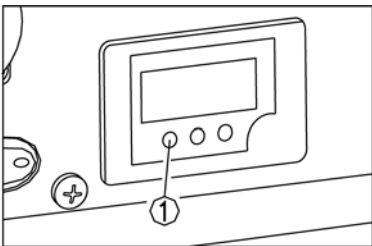
- U>** a: AC under-voltage, indicating the character of AC (alternative indication of AC and digit)
- b: DC under-voltage, indicating the character of DC (alternative indication of DC and digit).

- I>** Output over current of generator
- Output short circuit of generator
- Over heat of generator
- Maintenance time



## Oil Warning Light

When the oil level falls below the lower level, the oil warning light comes on and then the engine stops automatically. Unless you refill with oil, the engine will not start again.



When the overload indicator light comes on and power generation stops, proceed as follows:

1. Turn off any connected electric devices and stop the engine.
2. Reduce the total wattage of connected electric devices within the rated output.
3. Check for blockages in the cooling air inlet and around the control unit. If any blockages are found remove.
4. After checking, restart the engine.

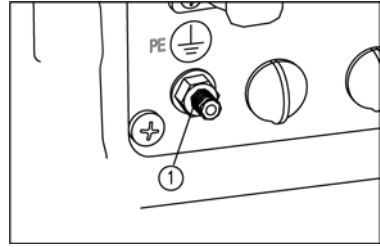
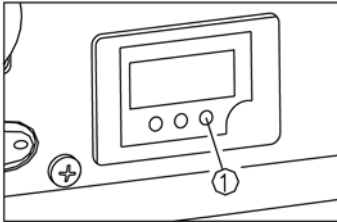
**TIP:** If the engine stalls or does not start, turn the engine switch to "ON" and then pull the recoil starter. If the oil warning light

**NOTE:** The overload indicator light may come on for a few seconds at first when using electric devices that

require a large starting current, such as a compressor or a submersible pump. However, this is not a malfunction.

## AC Pilot Light (Green)

The AC pilot light comes on when the engine starts and produces power.




connected for operation of the generator, it is an additional safety feature. If in doubt if grounding protection is required for your application, please check with a registered electrician as to your local regulations.

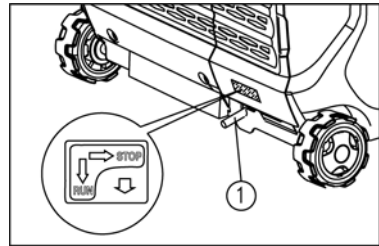
## Brake

During the operation and idle periods of the generator, brake timely and switch to “STOP”. If the machine needs to be moved, switch the brake to “RUN”


## DC Protector


The DC protector turns “OFF” automatically when an electric device connected to the generator is operating over peak wattage. To operate the equipment again, switch the DC protector button to “ON”.

 **NOTE:** Reduce the load of the connected electric device below the specified rated output of the generator if the DC protector turns off. If the DC protector turns off again, stop using device immediately and consult your nearest GT POWER Dealer.



## Preparation before Operating

 **NOTE:** Pre-operation checks should be made each time before operating.

 **WARNING:** The engine and muffler will be very hot after the engine has been running. Avoid touching the engine and muffler while they are still hot with any part of your body or clothing during inspection or repair.

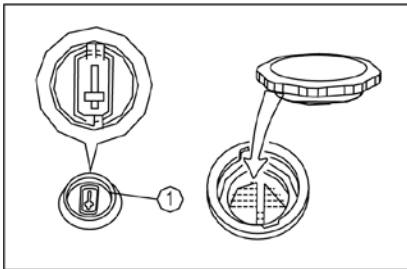
## Adding Fuel

- Fuel is highly flammable and poisonous. Check SAFETY INFORMATION on pgs 4 - 6 carefully before filling.
- Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands.
- After filling the fuel, make sure the fuel cap is tightened securely.
- Immediately wipe off spilled fuel with a clean dry cloth.
- Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts.

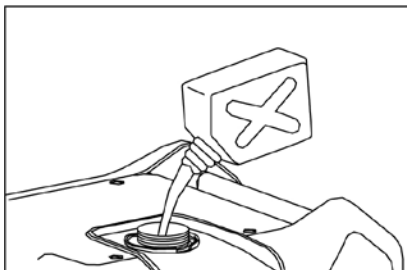
Make sure there is enough gasoline in the fuel tank.

**Recommended fuel:** Unleaded gasoline

**Total fuel tank capacity:** 10 litres



(1) Fuel Level Gauge

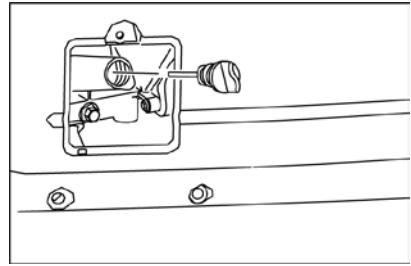


## Adding Engine Oil

The generator has been shipped without engine oil.



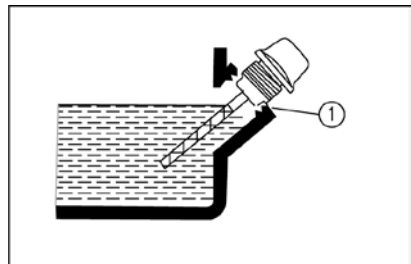
**WARNING:** Do not start the engine till filled with the sufficient engine oil. Do not tilt the generator when adding engine. This could result in overfilling and damage to the engine.



**Recommended engine oil:** SAE 10W -30

**Recommended engine oil grade:** API Service SE type or higher

**Engine oil quantity:** 0.6 L



(1) Oil Level

## Operating the Generator



**WARNING:** *Never operate the engine in a closed area or it may cause unconsciousness and death within a short time. Operate the engine in a well ventilated area. The generator has been shipped without engine oil. Do not start the engine until filled with sufficient engine oil.*

The generator can be used with the rated output load at standard atmospheric conditions:

**Ambient temperature:** 25°

**Barometric pressure:** 100kPa

**Relative humidity:** 30%

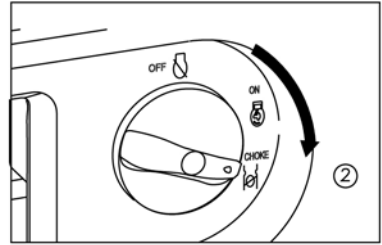
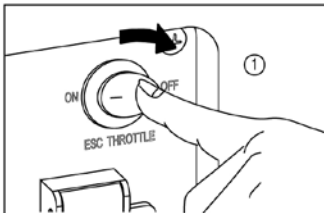
The output of the generator varies due to change in temperature, altitude (lower air pressure at higher altitude) and humidity.

The output of the generator is reduced when the temperature, the humidity and the altitude are higher than standard atmospheric conditions.

Additionally, the load must be reduced when using in confined areas, as generator cooling is affected.

## Starting The Engine

Before starting the engine, do not connect any electric devices. Turn the ESC switch to “OFF” (1).

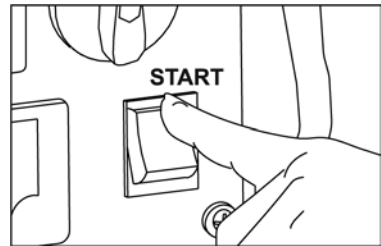


Turn the 3 in 1 switch to “CHOKE” (2)

- Ignition circuit is switched on.
- Fuel is switched on.
- Choke is switched on.

## Electric Start

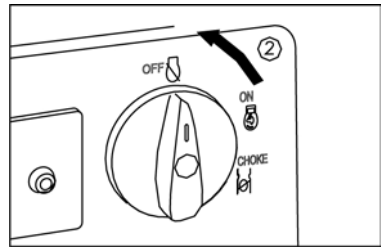
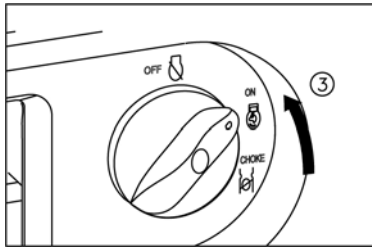
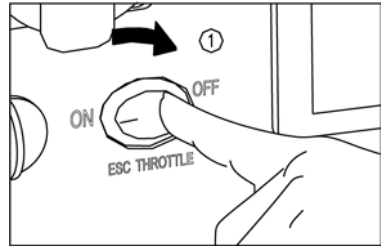
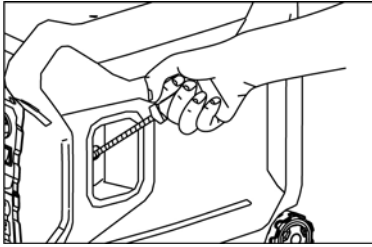
Turn the engine switch on the control panel to ON, or press it to START if it is in the electrical start state, then generator unit can be started.



In order to extend the service life of the battery do not press on the switch for more than 3 seconds and the interval between two pressings should be longer than 10 seconds.

## Recoil Start

Grasp the carrying handle firmly to prevent the generator from falling over when pulling the recoil starter. After the engine starts, warm up the engine until the engine does not stop when the choke knob is returned to the “ON” position .

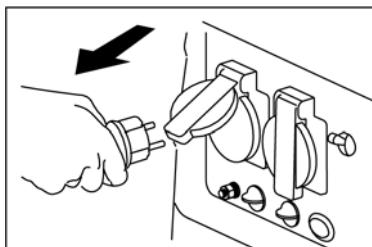


When starting the engine, with the ESC “ON” and there is no load on the generator: In ambient temperature (below 0°C ), the engine will run at the rated (3600r/min) for 5 mins to warm up the engine. In ambient temperature (below 5°C ), the engine will run at the rated r/min (3600r/min) for 3 minutes to warm up the engine.

The ESC unit operates normally after the above time period, while the ESC is “ON”.

## Stopping The Engine

- a. Release the load.



1. Turn off and disconnect any electrical devices.
2. Turn the ESC to “OFF” (1).
3. Turn the 3 in 1 switch to “OFF” (2) .
  - a. Ignition circuit is switched off.
  - b. Fuel valve is switched off.

## Alternating Current (AC) Connection



**WARNING:** Before starting the engine, do not connect any electric devices. Turn the ESC switch to “OFF” (1).



**NOTE:** Be sure all electric devices including the lines and plug connections are in good condition before connecting to the generator.

Be sure the total load is within generator rated output.

Be sure the receptacle load current is within receptacle rated current.

1. Start the engine.
2. Turn the ESC to "ON".
3. Plug in to AC receptacle.
4. Make sure the AC pilot light is on.
5. Turn on any electric devices.



**NOTE:** *The ESC must be turned "OFF" before increasing engine speed to rated rpm.*

Most motorised appliances require more than their electrical rating for startup. When an electric motor is started, the overload indicator (red) may come on. It is normal for this to go off within four seconds. If the overload indicator (red) stays on, consult your GT POWER dealer.

If the generator is connected to multiple loads please remember to connect the load with the highest starting current first. Connect the one with the lowest starting current last.

If the generator is overloaded, or if there is a short circuit in a connected appliance, the overload indicator (red) will go ON. The over-load indicator (red) will stay ON, and after about 4 seconds, current to the connected appliance(s) will shut off, and the output indicator (green) will go OFF. Stop the engine and investigate the problem. Determine if the cause is a short circuit in a connected appliance or an overload, correct the problem and restart the generator.

## Battery Charging

The generator DC rated voltage is 12V. Before starting to charge the battery, make sure that the DC protector is turned on. Start the engine first, and then connect the generator to the battery for charging.

1. Start the engine.
2. Connect the red battery charger lead to the positive (+) battery terminal.
3. Connect the black battery charger lead to the negative (-) battery terminal.
4. Turn the ESC "OFF" to start battery charging.



**NOTE:** *Be sure the ESC is turned off while charging the battery.*

Be sure to connect the red battery charger lead to the positive (+) battery terminal, and connect the black lead to the negative (-) battery terminal. **DO NOT REVERSE THESE POSITIONS.**

The DC protector turns off automatically if current above the rated flows during battery charging. To restart charging the battery, turn the DC protector on by pressing its button to "ON". If the DC protector turns off again, stop charging the battery immediately and consult your GT POWER Dealer.



**NOTE:** *Follow instructions in the owner's manual to determine the end of battery charging.*

Measure the specific gravity of electrolyte to determine if the battery is fully charged. At full charge, the electrolyte specific gravity is between 1.26 and 1.28.

It is advisable to check the specific gravity of the electrolyte at least once every hour to prevent overcharging the battery.

**WARNING:** *Never smoke or make and break connections at the battery while charging. Sparks may ignite the battery gas. Battery electrolyte is poisonous and dangerous, causing*

*severe burns, etc. contains sulfuric (sulphuric) acid. Avoid contact with skin, eyes or clothing.*



*Don't remove the parallel operation cable when the generator is in operation.*

*For single generator operation, the parallel operation cable must be removed.*



**WARNING:** *Substantial overloading that continuously lights the overload indicator (red) may damage the generator*

*Marginal overloading that temporarily light the overload indicator (red) may shorten the service life of the generator.*

*Limit operation requiring maximum power to 30 minutes.*

*Maximum power in parallel operation is; 6.0kVA. For continuous operation, do not exceed the rated power. Rated power in parallel operation is: 5.6kVA.*

## AC Parallel Operation

Before connecting an appliance to either generator, make sure that it is in good working order and that its electrical rating does not exceed that of the receptacle. During parallel operation, the ESC switch should be in the same position on both generators.

1. Connect the parallel operation cable between the GT3500SE to another GT3500SE with the optional Parallel Link Kit.
2. Start the engines and make sure the output indicator (green) on each generator comes on.
3. Plug an appliance into the AC receptacle.
4. Turn on the appliance.



**WARNING:** *Make sure that everything is in good working order. A faulty appliance or power cord can create a potential for electrical shock.*



**NOTE:** *If an appliance begins to operate abnormally, becomes sluggish, or stops suddenly, turn it off immediately. Disconnect the appliance and determine whether the problem is the appliance, or if the rated load capacity of the generator has been exceeded.*

*Make sure that the combined electrical rating of the tools or appliance do not exceed that of the generator. Never exceed the maximum for more than 30 minutes.*

*Never connect different generator models.*

## Electric & Electronic Appliances

When supplying precision equipment, electronic controllers, PCs, electronic computers, microcomputer based equipment or battery chargers, keep the generator a sufficient distance away to prevent electrical interference from the engine. Also ensure that electrical noise from the engine does not interfere with any other electrical devices located near the generator.



**NOTE:** *If the generator is to supply medical equipment, advice should first be obtained from the manufacturer, a medical professional or hospital. Some electrical appliances or general-purpose electric motors have high starting currents, and cannot therefore be used. Consult the equipment manufacturer for further advice.*



**NOTE:** Do not overload. The total load of all electrical appliances must not exceed the supply range of the generator. Overloading will damage the generator.



## Maintenance

Perform maintenance as shown below. More frequent service is required when operating in adverse conditions.

### Maintenance Schedule

#### Pre-operation Check - Daily:

**Check, clean & replace where necessary:**

- Spark plug
- Fuel level & leakage.
- Fuel hose for cracks & damage.
- Oil level - top up if necessary

#### Every 6 Months or 100 Hours:

**Check, clean & replace where necessary:**

- Air filter - more often if used in wet or dusty areas
- Muffler screen
- Spark arrester
- Spark plug
- Replace engine oil

#### Every 12 Months or 300 Hours:

**Check, clean & replace where necessary:**

- Fuel filter
- Crankcase breather hose

**Have a Service Dealer perform the following:**

- De-carbonise cylinder head  
- more frequently if necessary
- Valve clearance
- Fittings & fasteners

### General Recommendations

The warranty of the generator does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the generator as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain the generator.



**NOTE:** If you are not familiar with maintenance work, have a GT POWER Service Dealer do it for safety.



**WARNING:** Stop the engine before starting maintenance work.

Generator maintenance consists of keeping the unit clean and dry. Operate and store the unit in a clean dry environment where it will not be exposed to excessive dust, dirt, moisture or any corrosive vapours. Cooling air slots in the generator must not become clogged with debris.

- Check for any foreign materials while changing the engine oil and report to repair agent if necessary



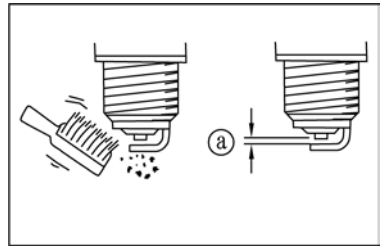
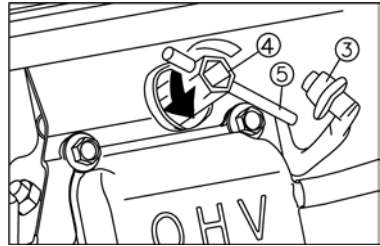
- Check the cleanliness of the generator frequently and clean when dust, dirt, oil, moisture or other foreign substances are visible on its exterior surface.



**CAUTION:** Never insert any object or tool through the air cooling slots, even if the engine is not running.



**NOTE:** DO NOT use a garden hose to clean generator. Water can enter the engine fuel system and cause problems. In addition, if water enters the generator through cooling air slots, some water will be retained in voids and crevices of the rotor and stator winding insulation. Water and dirt build-up on the generator internal windings will eventually decrease the insulation resistance of these windings.



3. Insert the handlebar (5) into the tool and turn it counterclockwise to remove the spark plug.
4. Check for discoloration and remove the carbon. The porcelain insulator around the center electrode of spark plug should be a medium-to-light tan color.
5. Check the spark plug type and gap.

### Standard spark plug:

BPR6ES/BP6ES (NGK)

F7RTC F7TC

**Spark plug gap:** 0.6-0.7mm

6. Install the spark plug.

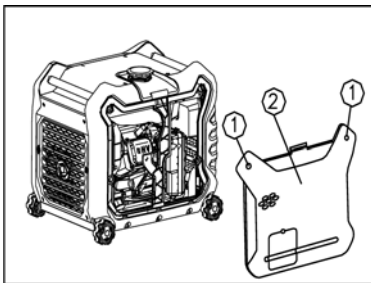
**TIP:** If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is 1/4-1/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible.

7. Install the spark plug cap and spark plug cover.

## Spark Plug Inspection

The spark plug is important engine component, which should be checked periodically.

1. Unscrew the screw (1) and take off the left exterior cover (2).



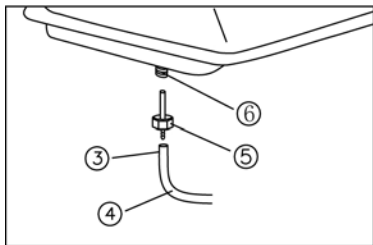
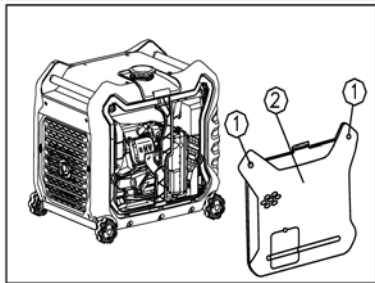
2. Remove noise suppressor cap assembly (3) Install spark plug wrench box (4) on the spark plug appropriately.

## Carburetor Adjustment

The carburetor is a vital part of the engine. Adjusting should be left to a dealer with the professional knowledge and specialised equipment to do so properly.

## Clean Fuel Filter

1. Unscrew but unloosen the screw (1) and take off the left exterior cover (2).

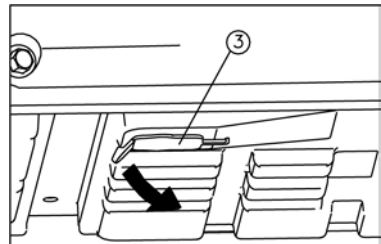
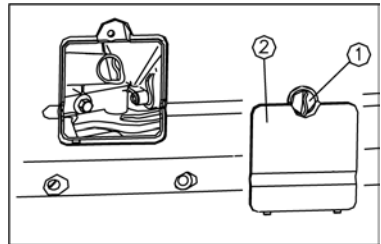


2. Drain the fuel in the fuel tank.
3. Hold the tube clip (3) downward and pull out the fuel tube (4) which connects to the fuel tank, then disassemble fuel filter.
4. Put the fuel filter (5) into noncombustible or higher flash point solvent and clean it.
5. Assemble fuel filter to the main jet (6) on the fuel tank then assemble fuel tube to main jet on the fuel tank and install tube clip.

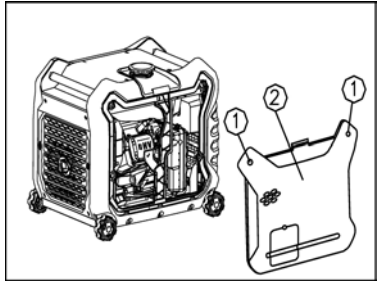
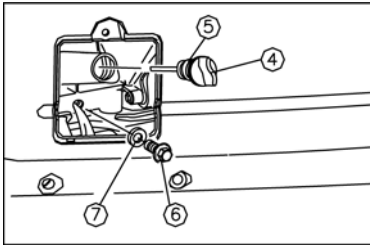
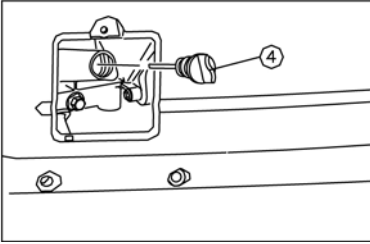
## Engine Oil Replacement

Avoid draining the engine oil immediately after stopping the engine. The oil is hot and should be handled with care to avoid burns.

1. Place the generator on a level surface and warm up the engine for several minutes.
2. Unscrew but unloosen the screw (1) and take off the sight glass of engine oil (2).
3. Lift and incline the machine; take off the end cap (3) at the bottom plate of machine
4. Remove the oil filler cap (4).



5. Place an oil pan under the engine, remove the oil drain bolt (6). Drain the oil from the oil tank.
6. Check oil filler cap (4), O-ring (5), Oil drain bolt (6) and Oil filler cap packing (7) . Replace immediately if damaged.
7. Assemble oil drain bolt and oil filler cap packing.



4. Add oil to the foam element and squeeze out excess oil. The foam element should be wet but not dripping.
5. Insert the foam element into the air filter case.

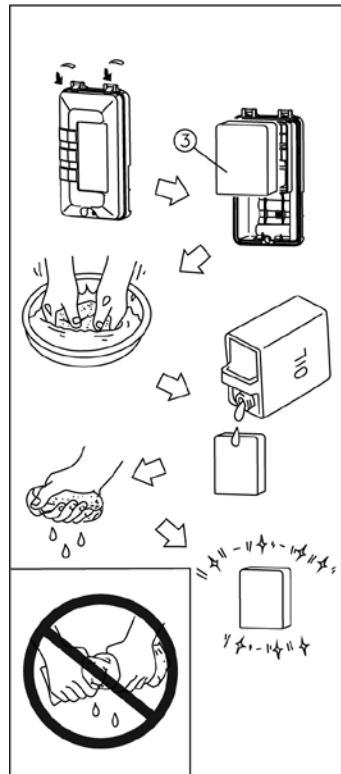
8. Add oil till to a suitable level tighten oil filler cap.
9. Assembly the end cap at the bottom of machine .
10. Assembly the sight glass of engine oil.



**NOTE:** Do not tilt the generator when adding engine oil. This could result in overflowing and damage to the engine.  
Don't let foreign body fall into engine.  
Oil and gasoline could pollute the environment. Do not throw it in the rubbish or pour it on the ground.  
Dispose of responsibly.

### Air Filter

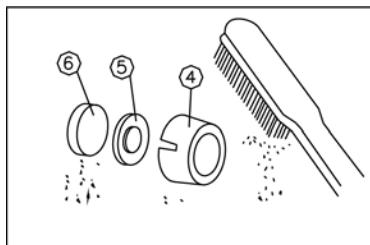
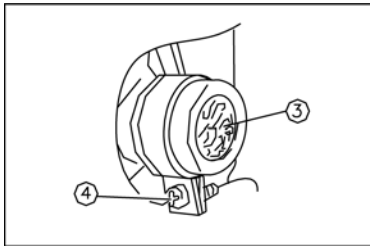
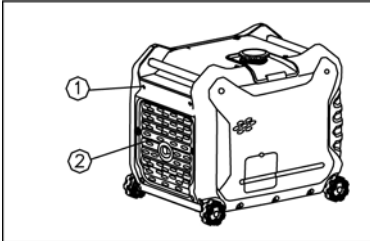
1. Loosen the screw (1) and take off the left exterior cover (2).
2. Remove the air filter cover and foam element (3).
3. Wash the foam element in solvent and let dry out.



## Muffler Screen



**WARNING:** The engine and muffler will be very hot after the engine has been run. Avoid touching the engine and muffler while they are still hot with any part of your body or clothing during inspection or repair.



1. Unscrew the 6 bolts and take off shutter .
2. Remove the muffler screen and bolt .
3. Clean the carbon on the muffler screen using a wire brush.
4. Check the muffler screen and spark arrester and replace if damaged.
5. Install spark arrester.



**WARNING:** Never use an engine without an appropriate spark arrester in forest areas! Doing so may cause a fire!

## Storage

Long term storage of your machine will require some preventive procedures to guard against deterioration.

### Drain the Fuel

1. Turn the 3 in 1 switch to "OFF".
2. Remove the fuel tank cap, remove the filter. Extract the fuel from the fuel tank into an approved gasoline container using a commercially available hand siphon. Then, install the fuel tank cap.
3. Fuel is highly flammable and poisonous. Check "Safety Information" on pgs 4 - 6. Carefully wipe off spilled fuel immediately with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.
4. Start the engine and leave it to run until it stops. The engine stops in approx. 20 mins. Time by running out of fuel.



**NOTE:** Do not connect any electrical devices. (Unloaded operation). Duration of the running engine depends on the amount of the fuel left in the tank.

5. Drain the fuel from the carburetor by loosening the drain screw on the carburetor float chamber.
6. Turn the 3 in 1 switch to "OFF".
7. Tighten the drain screw.

## Engine

Perform the following steps to protect the cylinder, piston ring, etc. from corrosion.

1. Remove the spark plug; pour about one tablespoon of SAE 10W-30 into the spark plug hole and reinstall the spark plug.
2. Turn the engine over several times using the recoil starter (with 3 in 1 switch knob off) to coat the cylinder walls with oil.
3. Pull the recoil starter until you feel compression. (This prevents the cylinder and valves from rusting).
4. Then stop pulling.
5. Clean the outside of engine and spray with an anti-rust compound.
6. Store the generator in a dry, well-ventilated place, with the cover placed over it.

## Troubleshooting

### Engine Will Not Start

#### 1. Fuel Systems

- *No gasoline in the combustion chamber.*
- *No fuel in the fuel tank - Add fuel.*
- *Blocked fuel filter - Clean fuel filter.*
- *Blocked carburetor - Clean carburetor.*

#### 2. Engine oil system

- *Oil level is low - Add engine oil.*

#### 3. Electrical systems

- *Put the 1 in 3 switch to "CHOKE" and pull the recoil starter - Poor spark.*
- *Spark plug wet or dirty with carbon*  
*- Remove carbon or wipe spark plug dry.*
- *Faulty ignition system - Consult a GT Power Service Dealer*  
*- [www.gtpower.co.nz](http://www.gtpower.co.nz)*

### Generator Won't Produce Power

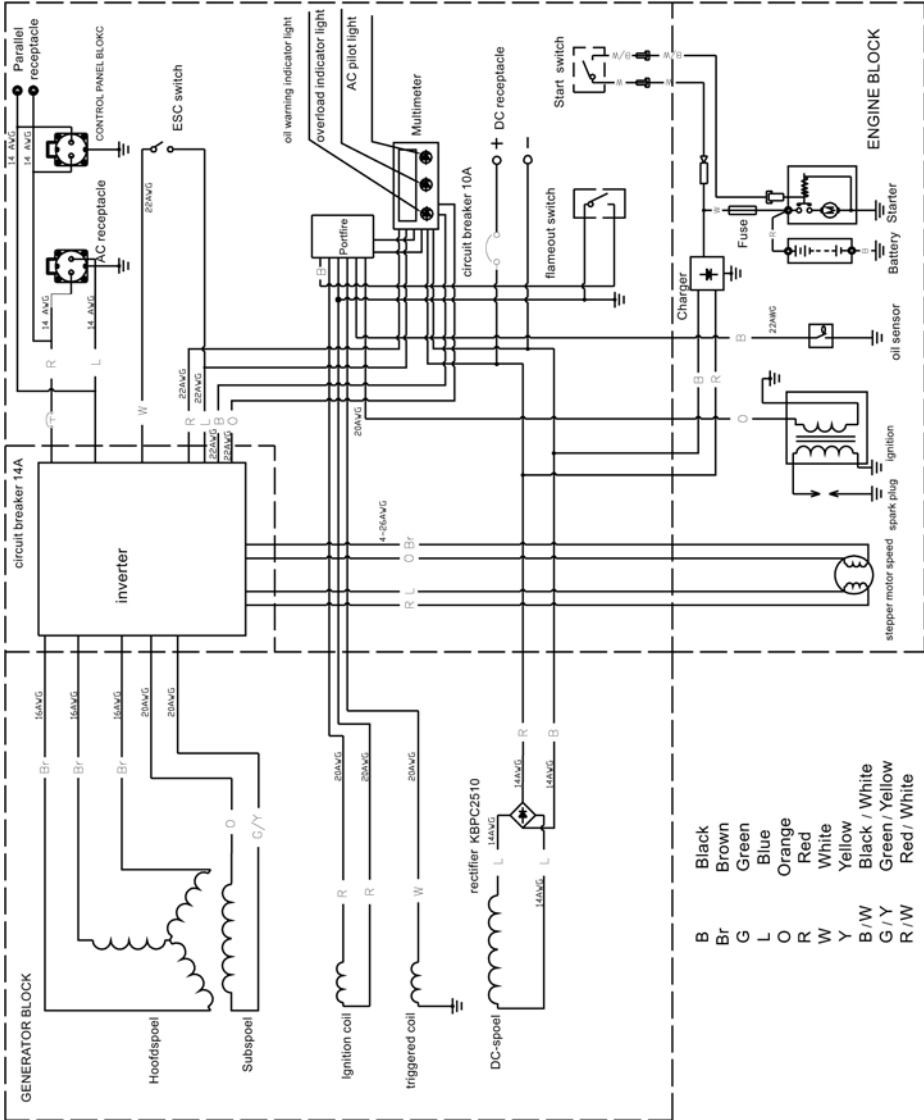
- *Safety device (DC protector) to "OFF"*  
*- Press the DC protector to "ON".*
- *The AC pilot light (Green) goes off*  
*- Stop the engine, and then restart.*

## Parameters

	<b>Model No.</b>	<b>GT3500SE</b>
<b>Generator</b>	Generator Type	Inverter
	Rated frequency /Hz	50
	Rated voltage /V	3.3
	Max. output power /KVA	3.0
	Rated output power /KVA	1.0
	Power factor	ISO8528 G2
	AC output quality	≤5
	THD/%	65
	Noise Level dB/LpA/LwA/K 4m (3/4 load)	12-8
	DC Output/ V-A	
	Overload Protect	DC
AC		Control by inverter overload protect program
<b>Engine</b>	Engine	170FD-3 / LC170FD-3
	Engine type	Single cylinder, 4-Stroke, forced air cooling, OHV
	Displacement / CC	212
	Fuel type	Unleaded Gasoline
	Fuel capacity / L	10
	Continue Running Time (at rated power)	5.5
	Fuel Tank Capacity / L	0.6
	Spark Model No.	BPR6ES/BP6ES(NGK) F7RTC/F7TC
	Starting mode	Recoil start/Electric start
<b>Generator Set</b>	Length×Width×Height/mm	578×440×510
	Net weight/kg	45

# Electrical Diagram

230V / 50Hz



- B Black
- Br Brown
- G Green
- L Blue
- O Orange
- R Red
- W White
- Y Yellow
- B/W Black / White
- G/Y Green / Yellow
- R/W Red / White

## Calculating Your Power Needs

Firstly add up all the “running wattage” requirements for all items that you need to power simultaneously. Next, add to that total the highest of the “starting wattages” you listed down. Now you know approximately how much power you need to start and run your appliances and equipment.

Item	Running Watts	Starting Watts
<b>Essentials</b>		
Light Bulb	100	100
Refrigerator/Freezer	1200	2400
Sump Pump	600	1800
Well Pump 1HP	2000	4000
Water Heater	4000	
Security System	180	
AM/FM Radio	300	
Garage Door Opener ½ HP	500	600
Battery Charger 12V	110	
<b>Heating and Cooling</b>		
Air Conditioner 12000 BTU	1700	2500
Fan	300	600
Furnace Fan 1/3 HP	1200	2000
<b>Home Appliances</b>		
Microwave	1000	
Electric Range – One Element	1500	
Electric Skillet	1250	
Coffee Maker	1500	
Clothes Washer	1200	
<b>Entertainment</b>		
CD/DVD Player	100	
Stereo Receiver	450	
Television 27”	500	
PC with 15” Monitor	800	
<b>Job Site</b>		
Belt Sander 3”	1000	1500
Bench Grinder 6”	700	1500
Circular Saw	1500	1500
Compressor 1 ½ HP	1000	1000
Edge Trimmer	500	500
Hand Drill ½”	1000	1000
Paint Sprayer	600	1200
Table Saw	2000	2000

These are estimates only. Check your tool or appliance for exact wattage requirements. The wattages listed are based on estimated wattage requirements.



## Warranty

Whilst every effort is made to ensure your complete satisfaction with this tool, occasionally, due to the mass manufacturing techniques, a tool may not live up to our required level of performance and you may need the assistance of our service department.

This product is warranted for a 12 month period from the date of the original purchase. If found to be defective in materials or workmanship, the tool or the offending faulty component will be replaced free of charge with another of the same item. A small freight charge may apply. Proof of purchase is essential.

We reserve the right to reject any claim where the purchase cannot be verified. This warranty does not include damage or defects to the tool caused by or resulting from abuse, accidents or alterations. It also does not cover any bonus items or included accessories. Only the generator is covered under this warranty.

Please ensure that you store your receipt in a safe place. Conditions apply to the above warranty.

1. **DURATION:** The manufacturer warrants that it will repair or replace, at no charge for parts or labour, the GT POWER Generator, if proven defective in material or workmanship, during the following time period(s) after date of original retail purchase:

For 1 Year:

The GT POWER GT3500SE Generator  
(excluding accessories)

2. **WHO GIVES THIS WARRANTY (Warrantor):**

EUROQUIP NZ and EUROQUIP AUSTRALIA

Visit [www.gtpower.co.nz](http://www.gtpower.co.nz) for service requirements and to register your warranty.

3. **WHO RECEIVES THIS WARRANTY (Purchaser):**

The original purchaser of this GT POWER Generator

4. **WHAT IS COVERED UNDER THIS WARRANTY:**

Defects in material and workmanship which occur within the duration of the warranty period.

5. **WHAT IS NOT COVERED UNDER THIS WARRANTY:**

A. Implied warranties, including those of merchantability and FITNESS for a particular purpose are limited in duration to this express warranty. After this period, all risks of loss, from whatever reason, shall be on the purchaser.

B. ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE OR MALFUNCTION OF THIS PRODUCT.

C. This warranty does not apply to any accessory or consumable items included with the product which are subject to wear from usage; the repair or replacement of these items shall be at the expense of the owner. These items include, but are not limited to: sparkplugs, seals, o-rings, recoil starter parts, etc. In addition, this warranty does not extend to any damage caused by the untimely replacement or maintenance of any of the previously listed CONSUMABLE parts.

D. Any failure that results from accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with the product.

E. Pre-delivery service, i.e. assembly and adjustment.

6. **RESPONSIBILITIES OF WARRANTOR UNDER THIS WARRANTY:** Repair or replace, at Warrantor's option, products or components which have failed within duration of the warranty period.

7. **RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:**

A. Please call your re-seller or the number listed above for warranty assistance.

B. Provide dated proof of purchase and maintenance records.

C. All generators must be delivered or shipped to the nearest Service Agent or re-seller. Freight costs, if any, must be borne by the purchaser.

D. Use reasonable care in the operation and maintenance of the products as described in the owner's manual(s).

E. No warranty costs incurred will be considered for, or covered if Euroquip has not been contacted and prior permission for repair / replacement has been granted.

8. **WHEN WARRANTOR WILL PERFORM REPAIR OR REPLACEMENT UNDER THIS WARRANTY:**

Repair or replacement will be scheduled and serviced according to the normal work flow at the servicing location and depending on the availability of replacement parts.



**GT3500SE POWER**  
PROFESSIONAL POWER GENERATOR

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Congratulations on your new GT POWER product. We are proud to have you as our customer and will strive to provide you with the best service and reliability in the industry. This product is backed by our extensive warranty and world-wide service network. To locate your nearest distributor or service agency visit [www.gtpower.co.nz](http://www.gtpower.co.nz), or email us at [info@euroquip.co.nz](mailto:info@euroquip.co.nz).