



EP2500(E)-EP3300-EP4100(E)-EP5000T
EP6000(E)-EP6500T(E)-EP7000

Content:

0. INTRODUCTION
1. SAFETY INSTRUCTIONS
2. CE-MARK, NOISE LABEL AND PICTOGRAMS
3. SHORT DESCRIPTION OF THE GENERATING SET
4. DESCRIPTION OF THE CONTROL PANEL
5. USE OF THE GENERATING SET
6. INCORPORATION OF THE GENERATING SET
7. PARTS LIST
8. ELECTRICAL SCHEMES
9. BUILDING-IN DIMENSIONS
10. MAINTENANCE
11. TRANSPORT AND STORAGE

ORIGINAL INSTRUCTION MANUAL

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0. INTRODUCTION

Please read this manual carefully before using the generating set. If you act as stated in this manual, your generating set will guarantee you a smooth functioning for years.

First read the engine and alternator manual. These manuals are supplied with each generating set and explain the use, the maintenance and the dangers in case of improper use.

If you have any questions concerning your generating set please contact EUROPOWER Generators through www.europowergenerators.com.

All data in this manual are based on the standard versions of the EP2500 (E)/EP3300/EP4100 (E)/EP5000T/EP6000 (E)/EP6500T(E)/EP7000 with Honda GX160/GX200/GX270/GX390 engine. Generating sets with options can have slightly different data. Contact your dealer for more information.

1. SAFETY INSTRUCTIONS

- Read and understand the owner's manual before using the generator, opening it or working on it. This can prevent personal injury or equipment damage. When this manual is not 100% clear to you, please consult an authorised dealer.
- Place the generator on a levelled surface.
When the generator is tilted, fuel spillage may result.
Place the generator, when in use, at least 1m away from buildings or other equipments.
Keep children and pets away from the generator when it is in operation.
- Gasoline is extremely flammable and explosive under certain conditions.
Refuel only in a well-ventilated area with the engine stopped.
Do not smoke or allow flames or sparks in the area where the engine is refuelled or where gasoline is stored.
Wipe up spilled fuel at once.
Avoid repeated or prolonged contact with skin or breathing of vapour.
- If you decide to use a gasoline containing alcohol (gasohol), be sure its octane rating is at least as high as that recommended by EUROPOWER. There are two types of 'gasohol': one containing ethanol, and the other containing methanol. Do not use gasohol that contains more than 10% ethanol.
Do not use gasoline containing methanol (methyl or wood alcohol) that does not also contain cosolvents and corrosion inhibitors for methanol. Never use gasoline containing more than 5% methanol, even if it has cosolvents and corrosion inhibitors.
- Fuel system damage or engine performance problems resulting from the use of fuels that contain alcohol is not covered by the warranty. EUROPOWER cannot endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.
Before buying fuel from an unfamiliar station, try to find out if the fuel contains alcohol. If it does, confirm the type and percentage of alcohol used. If you notice any undesirable operating symptoms while using a gasoline that contains alcohol, or one that you think contains alcohol, switch to a gasoline of which you know that it does not contain alcohol.
- Use automotive gasoline with a pump octane number of 86 or higher, or a research octane number of 91 or higher. Unleaded gasoline is preferred to minimize combustion chamber deposits.
- It is allowed to use the generating set in the rain (according to EN60529-protection class IP23). This means that the generating set can support water in the form of rain till max. 60° in respect of the perpendicular line. Do not use the generating set in the snow. Only use it in spaces where there is no explosion hazard.



- The generator is a potential source of electrical shocks when misused. Do not operate the generator with wet hands.
- Connections for 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.
Never connect the generating set to the public mains or any other electrical power source! Improper connections can allow electrical current from the generator to back feed into the utility lines. Such back feed may electrocute utility company workers, and when utility power is restored, the generator may explode, burn or cause fires in the building's electrical system.
- The muffler becomes very hot during operation and remains hot for a while after stopping the engine.
Be careful not to touch the muffler while it is still hot.
Let the engine cool down before storing the generator indoors.
To prevent scalding, pay attention to the warning marks attached to the generator.
- Keep in mind the maximum weight a person is allowed to carry if you move the generating set by hand.
- Make sure the generator operates in a well-ventilated room. In case of insufficient cooling and/or ventilation severe damage can occur. Exhaust gases also contain poisonous carbon monoxide.
- Never use the generator when the cover plates are removed from the engine or alternator.
- Do not wear loose clothes near the generator.
- Let maintenance be carried out by trained technicians only. For example, according to art. 233 of the Belgian AREI - General Regulation on Electrical Installations - this means that maintenance can only be carried out by "warned persons" (code BA4) or "authorised persons" (code BA5).
If local rules differs, the most rigid of both rules should be followed.
- Never work on the generator while it is still running.
- Never connect appliances that need more power than the generator can provide. This could seriously damage the generator.
- Be very careful while using a welder on any type of generator. Welders might damage the alternator. Always consult a EUROPOWER specialist first to make sure that the power of the generating set matches the requested power of the welder.
- If the appliance you want to connect is of an electronic kind (computer, radio, TV, plastic welder, ...), always consult a EUROPOWER specialist first. Such appliances might not work or even break down in combination with some alternators. Alternators with a low harmonic distortion are best suited for connection of electronic appliances.



2. CE-MARK, NOISE LABEL AND PICTOGRAMS

EUROPOWER		EUROPOWER Generators bvba Regelgijstraat 175 - 3100 Nauwerwen Tel: +32-11-286161 - Fax: +32-11-582939	
Low Power Generating Set			
Type:	EP6000	Nr - Year:	000137 - 16
PRP	kVA 5,4 kW 5,4 A (1~230V) 23 A (V) -	Fuel	RON91
ESP	6 6 26 -	Tank (l)	6,1
Con g	1	Altitude (m)	1000
Max g	75	Frequency (Hz)	50
		ISO8528-Class	G1 - A
			rpm 3000








2.1. CE-marking and noise label: these are examples of a EUROPOWER type indication plate and a noise label. The type indication plate can be found on every generator. The noise label only appears on generators that comply with the European standard 2000/14/EC. More information on this can be found in the EUROPOWER documentation or on our web site www.europowergenerators.com.

2.2. Pictograms: some of these pictograms are typical for a certain option or special type of generating set. Therefore not all pictograms necessarily appear on the standard generating set.


EP_B

(1)		Here you can fill the tank with gasoline fuel. Remove the fuel filler cap and check the fuel level. Refuel carefully to avoid fuel spillage. Do not fill the tank to the top. You might have to lower the fuel level, depending on operating conditions. After refuelling, reinstall the fuel filler cap and tighten it securely. Spilled fuel causes environmental damage. Wipe up spilled gasoline at once.
(4)		Here you can fill the oil by loosening the oil filler cap or dipstick. Fill carefully to avoid oil spillage. Spilled oil should be wiped up immediately in a correct and environmentally friendly way. Respect the local regulations. Do not pour oil onto the ground or down the drain.
(11)		WARNING! – Electric shock hazard.
(12)		Never connect the generator to an installation which is also connected to a public mains. Improper connections can allow electrical current from the generator to back feed into the utility lines. Such back feed may electrocute utility company workers, and when utility power is restored, the generator may explode, burn or cause fires in the building's electrical systems.
(13)		Here an earth pin can be connected. Follow the instructions in this manual concerning the use of an earth pin.



(22)		WARNING! – Hot surface. Can cause burns. Hot engine and hot exhaust system can cause serious and even lethal injuries. Never work on the generating set before it has sufficiently cooled down.
(23)		Do not smoke nor allow sparks or flames near the generating set, the fuel pipe, the fuel filter, the fuel pump or other possible sources of spilled fuel or fuel vapours.
(24)		Fuel is highly flammable and explosive and you can be burnt or seriously injured when refuelling. Turn the engine off and let it cool down before refuelling.
(25)		The engine's exhaust gases contain poisonous carbon monoxide. You can be killed or seriously hurt. Do not run the engine in a closed environment. The exhaust system should be leak-tight and it should be inspected regularly.
(27)		<p>Only use a hoist according to local safety regulations. Never allow sharp bends in lifting cables and chains. It is strictly forbidden to dwell or stay in the risk zone under a lifted load. Never lift the unit over people or residential areas. Never leave a load hanging on a hoist. Lifting acceleration and retardation shall be kept within safe limits.</p> <p>To lift heavy parts, a hoist of ample capacity, tested and approved according to local safety regulations, shall be used. Lifting hooks, eyes, shackles, etc. shall never be bent and shall only have stress in line with their design load axis.</p> <p>The capacity of a lifting device diminishes when the lifting force is applied at an angle to its load axis.</p> <p>For maximum safety and efficiency of the lifting apparatus all lifting members shall be applied as near to perpendicular as possible. A hoist has to be installed in such a way that the object will be lifted perpendicular.</p> <p>If that is not possible, the necessary precautions must be taken to prevent load-swinging, e.g. by using two hoists, each at approximately the same angle not exceeding 30° from the vertical.</p>



(28)		<p>WARNING! – Consult the instruction and maintenance manual of the engine and the alternator before carrying out maintenance. Improper maintenance, or failure to correct a problem before operation, can cause a malfunction in which you can be seriously hurt or killed.</p> <p>Always follow the inspection and maintenance recommendations and schedules mentioned in the instruction and maintenance manual of the engine and the alternator.</p>
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3. SHORT DESCRIPTION OF THE GENERATING SET

Type: **EP2500 (E)**: 2.2kVA max. 2kVA cont. 9A 1x230V
Frequency: 50 Hz
Engine: HONDA GX160, 5.5 PK, 1 cylinder, 163 cm³, 3000 rpm, air-cooled
Alternator: Sincro R80LBL 2.2kVA, SAEJ609A
Content of fuel tank: 3.1 liter
Dimensions: L = 58cm, W = 42cm, H = 44cm
Weight: EP2500: 37 kg / EP2500E: 45 kg
Noise level: LWA 95 (*)

Type: **EP3300**: 3kVA max. 2.7kVA cont. 12A 1x230V
Frequency: 50 Hz
Engine: HONDA GX200, 6.5 PK, 1 cylinder, 196 cm³, 3000 rpm, air-cooled
Alternator: Mecc Alte S16W-90/C 3.5kVA, SAEJ609A
Content of fuel tank: 3.1 liter
Dimensions: L = 58cm, W = 42cm, H = 44cm
Weight: 42 kg
Noise level: LWA 95 (*)

Type: **EP4100 (E)**: 4kVA max. 3.6kVA cont. 16A 1x230V
Frequency: 50 Hz
Engine: HONDA GX270, 9 PK, 1 cylinder, 270 cm³, 3000 rpm, air-cooled
Alternator: Sincro ER2CAT 4.2kVA, SAEJ609B
Content of fuel tank: 5.3 liter
Dimensions: L = 77cm, W = 51cm, H = 56cm
Weight: EP4100: 60 kg / EP4100E: 72 kg
Noise level: LWA 96 (*)

Type: **EP5000T**: 5kVA max. 4.5kVA cont. 5A 3x400V / 3.6kVA max. 16A 1x230V
Frequency: 50 Hz
Engine: HONDA GX270, 9 PK, 1 cylinder, 270 cm³, 3000 rpm, air-cooled
Alternator: Sincro ET2MCF - ET7/4 7kVA, SAEJ609B
Content of fuel tank: 5.3 liter
Dimensions: L = 83cm, W = 51cm, H = 56cm
Weight: 72 kg
Noise level: LWA 96 (*)



Type: **EP6000 (E)**: 6kVA max. 5.4kVA cont. 23A 1x230V
Frequency: 50 Hz
Engine: HONDA GX390, 13 PK, 1 cylinder, 389 cm³, 3000 rpm, air-cooled
Alternator: Sincro EK2MCT 6kVA, SAEJ609B
Content of fuel tank: 6.1 liter
Dimensions: L = 83cm, W = 51cm, H = 56cm
Weight: EP6000: 75 kg / EP6000E: 87 kg
Noise level: LWA 97 (*)

Type: **EP6500T (E)**: 7kVA max. 6.5kVA cont. 9.4A 3x400V / 4kVA max. 18A 1x230V
Frequency: 50 Hz
Engine: HONDA GX390, 13 PK, 1 cylinder, 389 cm³, 3000 rpm, air-cooled
Alternator: Sincro ET2MCF - ET7/4 7kVA, SAEJ609B
Content of fuel tank: 6.1 liter
Dimensions: L = 83cm, W = 51cm, H = 56cm
Weight: EP6500T: 82 kg / EP6500TE: 94 kg
Noise level: LWA 97 (*)

Type: **EP7000**: 7kVA max. 6kVA cont. 26A 1x230V
Frequency: 50 Hz
Engine: HONDA GX390, 13 PK, 1 cylinder, 389 cm³, 3000 rpm, air-cooled
Alternator: Sincro EK2LAT 7kVA, SAEJ609B
Content of fuel tank: 6.1 liter
Dimensions: L = 83cm, W = 51cm, H = 56cm
Weight: 95 kg
Noise level: LWA 99. This generating set does not comply with the European Noise Directive 2000/14/EG: see also "Mounting instructions" to be found with "Declaration of Incorporation according to 2006/42/EG".

(*) (see also the EC Declaration of Conformity IIA for the "measured sound power level" and the "guaranteed sound power level")

The main components of the generating set are: the air-cooled HONDA GX160/GX200/GX270 or GX390 gasoline engine (3000rpm), the alternator and the frame.
For engine and alternator specifications we refer to the engine and alternator manual supplied with each generating set.
Specifications for the control panel can be found in chapter 4.

4. DESCRIPTION OF THE CONTROL PANEL

The alternator panel consists of:

- Thermal protection (only on 1~ 230V socket)
- 2 sockets (1~ 230V types = 2x Schuko, 3~ 400V types = 1x Schuko + 1x CEE 400V 16A five-pole)
- EP7000: 3 sockets (2x Schuko + 1x CEE 230V 32A 3 poles)

The engine panel consists of:

- Manual start versions:
 - On-off (0-1) button
- Electric start versions:
 - Starting key
 - Fuse starting circuit



5. USE OF THE GENERATING SET

Control elements: 2 sockets with thermal protection (only on 1~ 230V socket) (EP7000 has 3 sockets), choke lever, fuel cock and on/off (0-1) switch (manual start versions EP2500/EP3300/EP4100/EP5000T/ EP6000/EP6500T/EP7000) or starting key (electric start versions EP2500E/EP4100E/EP6000E/EP6500TE).

5.1 Starting the engine:

- Check the oil level.
- Check the fuel level.
- Open the fuel cock by pushing the black lever to the RIGHT.
- Switch the choke on by pushing the grey lever to the LEFT if the engine is cold.
- Manual start versions:
 - Turn the on/off (0-1) switch on the engine to the "on"-position (1).
 - Start the engine with the recoil starter and turn the choke off again by pushing the grey lever to the RIGHT.
- Electric start versions:
 - Start the engine with the starting key and turn the choke back off again by pushing the grey lever to the RIGHT.
- Let the engine warm up for a few minutes before charging.
- Connect the charges.

5.2. Charging the generating set:

- On the type indication plate of the generating set you can find the power date/maximum charging current of the generating set.
- In case of overload, the thermal protection (only on 1~ 230V socket), mounted in the alternator, will switch off within a short period of time. Check the load, reduce it if necessary and switch on the protection again.
- The standard generating sets have no protection against short-circuit. As an option a thermal-magnetic protection is available. Consult your dealer for more information.
- The three-phase socket of the standard generating sets EP5000T, EP6500T and EP6500TE has no protection against overload or short-circuit. As an option a thermal-magnetic protection is available. Consult your dealer for more information.

5.3. Stop the generating set:

- Let the engine run for a few minutes without charge before stopping it. This way, the engine can "cool down".
- Manual start versions:
 - Turn the on/off (0-1) switch of the engine in position off (0).
- Electric start versions:
 - Stop the engine with the starting key (position OFF (0)).
- Close the fuel cock by pushing the black lever to the LEFT.

5.4. Cooling

- make sure that there are no obstructions at the fresh air intake grid, which provides cooling air for the engine and the alternator.
- make sure that the hot cooling air from the engine and the alternator, as well as the exhaust gasses, can easily be abducted.
- never let the generator run in an inappropriately ventilated room!



5.5. Protections:

- Engine: oil alert system
- Alternator: thermal protection (only on 1~ 230V socket).

5.6. Maintenance (also see chapter 10):

All maintenance points (air cleaner, oil drain, oil filler cap, fuel filter, valve cover, spark plug) are quickly accessible. For the execution of normal maintenance activities, consult the engine manual. For engine and alternator faults, please contact your dealer.

5.7. Safety for the users:

The standard versions of the generating sets EP2500 (E)/EP3300/EP4100 (E)/EP5000T/EP6000 (E)/EP6500T(E)/EP7000 are delivered following the IU electrical scheme. This means that for connection of charges class 1 (charges with earth) there is a maximum of 1 charge only, and for charges class 2 (charges with double insulation, to be recognized by the "double square" pictogram on the machine) there is no limitation in the quantity of charges connected at the same time on the generating set.

Contact your distributor for details on the above subject.

Still you have to respect the minimum square (mm²) and maximum length of the cables you are using (to assure the correct switching off of the thermal-magnetic protection in case of short-circuit).

Thermal magnetic protection, insulation protection or earth leakage protection are available as an option.

Table: of minimum cable section (in mm²) and maximum cable length (in m) in function of the current (in A)

Current in A	Cable length		
	0 to 50 metres	> 50 to 100 metres	> 100 to 150 metres
6	1.5mm ²	1.5mm ²	2.5mm ²
8	1.5mm ²	2.5mm ²	4mm ²
10	2.5mm ²	4mm ²	6mm ²
12	2.5mm ²	6mm ²	10mm ²
16	2.5mm ²	10mm ²	10mm ²
18	4mm ²	10mm ²	10mm ²
24	4mm ²	10mm ²	16mm ²
26	6mm ²	16mm ²	16mm ²
36	6mm ²	25mm ²	25mm ²
50	10mm ²	25mm ²	35mm ²

6. INCORPORATION OF THE GENERATING SET

Consult your EUROPOWER dealer or EUROPOWER Generators.

EP7000:

See the "Mounting instructions" to be found with "Declaration of Incorporation according to 2006/42/EG" for generating sets that do not have the EC Declaration of Conformity IIA.

7. PARTS LIST

This parts list is based on the standard versions of the EP2500 (E)/EP3300/EP4100 (E)/EP5000T/EP6000 (E)/EP6500T(E)/EP7000. For generating sets with options (e.g. insulation protection, remote control, automatic start/stop

Opsteller: BL
 Opsteldatum: 18/10/2021

Revisie:00
 Goedkeurder: FL

Revisor:
 Revisiedatum:



system,...) there can be small differences! Please contact your dealer for info on parts for these options.

Art. nr. Description

7.1. GENERATING SET

120000025 silent bloc A 30/25 M8x15 - M8x35 (engine EP2500(E) H/S, EP3300 H/MA)
120000030 silent bloc A 30/40 M8 (alternator, EP2500(E) H/S)
120000031 silent bloc A 30/30 M8 (alternator EP3300 H/MA)
120000050 silent bloc A 50/40 M10 (alternator EP4100(E) H/S, EP5000T H/S, EP6000(E) H/S, EP6500T(E) H/S, EP7000 H/S)
120001043 silent bloc B 40/30 M8 (engine EP4100(E) H/S, EP5000T H/S, EP6000(E) H/S, EP6500T(E) H/S, EP7000 H/S)
169825650 battery cable +, 650mm (EP2500E H/S - EP4100E H/S - EP6000E H/S EP6500TE H/S)
169925500 battery cable -, 500mm (EP6000E H/S - EP6500TE H/S)
169925450 battery cable -, 450mm (EP4100E H/S)
169925400 battery cable -, 400mm (EP2500E H/S)
170000000 battery 12V 24 Ah (electric start versions, except for EP2500E H/S)
170000001 battery 12V 18 Ah (only EP2500E H/S)
170000026 protection cover black (EP2500E H/S)
182000013 bimetal protection 13A (EP6500T(E) H/S)
200991010 bimetal protection 10A (EP5000T H/S)
202000003 S16W-90C 3.5 kVA Mecc-Alte alternator (EP3300 H/MA)
217000002 R80LBL 2.2 kVA Sincro alternator (EP2500(E) H/S)
217000004 ER2CAT 4.2 kVA Sincro alternator (EP4100(E) H/S)
217000006 EK2MCT 6 kVA Sincro alternator (EP6000(E) H/S)
217000107 ET2MCF 7/4 kVA Sincro alternator (EP5000T H/S, EP6500T(E) H/S)
300000060 GX160UT2 VSD9 5.5PK 3000rpm (EP2500 H/S)
300000061 GX160UT1 VXE9 ELEC.START (EP2500E H/S)
300000070 GX200UT2-VSD9 6.5PK 3000rpm (EP3300 H/MA)
300000090 GX270UT2 VX-B7-OH 9PK 3000rpm (EP4100 H/S, EP5000T H/S)
300000091 GX270UT2 VXE7 9HP ELEC.START (EP4100E H/S)
300000130 GX390UT2 VXB9-OH 13PK 3000rpm (EP6000 H/S, EP6500T H/S)
300000131 GX390UT2 VXE9 13PK 3000rpm (EP6000E H/S, EP6500TE H/S)
300004130 GX390T2 VSP-OH 13PK 3000rpm (EP7000 H/S)
910000005 frame type 3S (EP2500(E) H/S)
910000009 frame type 3A (EP3300 H/MA)
910000016 Battery support with holes (only electric start versions)
910000017 threaded bar M6 195mm, battery fixation (only electric start versions)
910000018 U-profile Alu 210mm, battery fixation (only electric start versions)
910000100 frame type 4 (EP4100(E) H/S)
910000105 frame type 5 (EP5000T H/S, EP6000(E) H/S, EP6500T(E) H/S)
910000106 frame type 5AC (EP7000 H/S)
910999574 supporting plate alternator (EP7000 H/S)

7.2. MAINTENANCE PARTS

398000160 air cleaner element GX160 / GX200
398000270 air cleaner element GX270 UT2-VXB7 + GX270 UT2-VXE7
398000390 air cleaner element GX390 UT1 + GX390 UT2
390700056 brushes + brush holder (EP5000T, EP6500T(E))
A004 spark plug GX160 / GX200 / GX270 / GX390
A022 valve cover seal GX270 / GX390
A034 fuel filter in tank
A00000130 valve cover seal GX160 / GX200



8. ELECTRICAL SCHEMES

See the electrical schemes in the engine and alternator manual.

9. BUILDING-IN DIMENSIONS

To be asked at your EUROPOWER dealer.

10. MAINTENANCE

10.1. Alternator:

EP2500(E) - EP3300 - EP4100(E) - EP6000(E) - EP7000: a periodic check of the alternator is not necessary. A visual control of the different alternator parts at every general generator maintenance will do.

Check here also the state of the rotor bearing.

EP5000T - EP6500T(E): a periodic check of the alternator is not necessary. A visual control of the different alternator parts at every general generator maintenance will do.

Check here also the state of the rotor bearing and the state of the carbon brushes! The expected life time of the brushes is +/- 1000 hours.

10.2. Engine:

See engine manual for maintenance intervals.

Remark: in the factory, the engine has been filled with 15W40 oil (for temperatures up to -10°C). The minimum specification of this oil has to be API SJ/CF-4. If the ambient temperature is lower, 10W40 oil (up to -20°C) or 5W40 oil (up to -30°C) should be used. Here the minimum specification also has to be API SJ/CF-4.

11. TRANSPORT AND 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 in position "OFF".

When transporting the generators:

- Close the fuel cock.
- Do not overfill the tank (there may not be any fuel in the filler neck).
- Do not use the generator while it is placed in a vehicle.
- Take the generator off the vehicle and use it in a well-ventilated place.
- When placing the generator in a vehicle, avoid a place exposed to direct sunlight. When the generator is left in an enclosed vehicle for a longer period of time, high temperature inside the vehicle could cause fuel to vaporise resulting in a possible explosion.
- Do not drive on a rough road for an extended period with the generator on board. If you must transport the generator on a rough road, drain the fuel from the generator beforehand.

Before storing the unit for an extended period (> 2 months):

- Make sure the storage area is free of excessive humidity and dust.
- For gasoline generating sets: drain the fuel.
- Drain all gasoline from the fuel tank into an approved gasoline container.
- Turn the fuel cock "ON", loosen the carburettor drain screw and drain the gasoline from the carburettor into a suitable container.

Opsteller: BL
Opsteldatum: 18/10/2021

Revisie:00
Goedkeurder: FL

Revisor:
Revisiedatum:



- Turn the fuel cock "OFF" and tighten the carburettor drain screw securely.
- **WARNING**
Gasoline is extremely flammable and explosive under certain conditions.
Do not smoke or allow flames or sparks in the area.
- Remove the spark plug and pour about a tablespoon of clean engine oil into the cylinder. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug.
- Slowly pull the starter grip until resistance is felt. In this position, both the intake and exhaust valves are closed. Storing the engine in this position will help to protect it from internal corrosion.
- Reinstall the spark plug cap on the spark plug securely.
- Refresh the engine oil.
- Electric start versions: Remove the battery and connect it to a battery charger. This way you will increase the life span of the battery.