

# GE 6000 SX/GS GE 6000 SX/GS-AVR GE 6500 SX/GS

1212

356409003 - GB

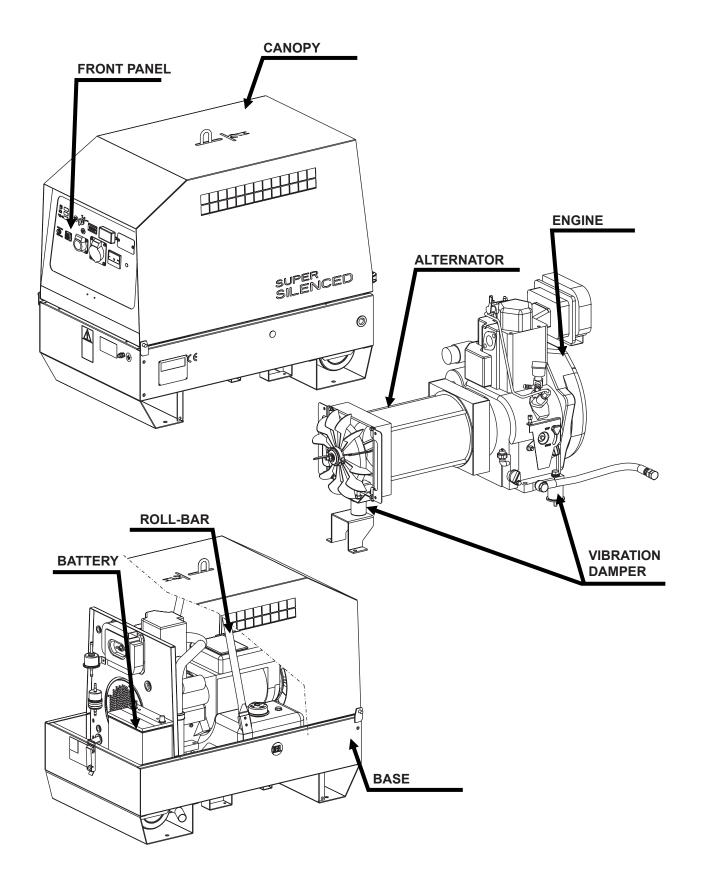
# **ENGLISH**

		М
(B) DESCRIPTION OF THE MACHINE	GE 6000 SX/GS	0
(F)	GE 6500 SX/GS	REV.4-11/11

The generating set GE 6000 / 6500 is a unit which transforms the mechanical energy, generated by endothermic engine, into electric energy, through an alternator.

Is meant for industrial and professional use, powered by an endothermic engine; it is composed of various main parts such as: engine, alternator, electric and electronic controls, the fairing or a protective structure.

The assembling is made on a steel structure, on which are provided elastic support which must damp the vibrations and also eliminate sounds which would produce noise.









**UNI EN ISO 9001: 2008** 

MOSA has certified its quality system according to UNI EN ISO 9001:2008 to ensure a constant, highquality of its products. This certification covers thedesign, production and servicing of engine drivenwelders and generating sets.

The certifying institute, ICIM, which is a member ofthe International Certification Network IQNet, awarded the official approval to MOSA after anexamination of its operations at the head office andplant in Cusago (MI), Italy.

This certification is not a point of arrival but a pledgeon the part of the entire company to maintain a levelof quality of both its products and services whichwill continue to satisfy the needs of its clients, aswell as to improve the transparency and the communications regarding all the company's actives in accordance with the official procedures and inharmony with the MOSA Manual of Quality.

The advantages for MOSA clients are:

- ·Constant quality of products and services at the high level which the client expects;
- Continuous efforts to improve the products andtheir performance at competitive conditions;
- Competent support in the solution of problems;
- · Information and training in the correct applicationand use of the products to assure the security ofthe operator and protect the environment;
- Regular inspections by ICIM to confirm that therequirements of the company's quality systemand ISO 9001 are being respected.

All these advantages are guaranteed by the CERTIFICATE OF QUALITY SYSTEM No.0192 issued by ICIM S.p.A. - Milano (Italy ) - www.icim.it

(B) Index	GE 6000-6500 SX/GS	M 1
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R 1 HP	SPARE PARTS TABLES SPARE PARTS



## **ATTENTION**

This use and maintenance manual is an important part of the machines in question.

The assistance and maintenance personel must keep said manual at disposal, as well as that for the engine and alternator (if the machine is synchronous) and all other documentation about the machine.

We advise you to pay attention to the pages concerning the security (see page M1.1).



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#### **INFORMATION**

Dear Customer,

We wish to thank you for having bought a high quality set.

Our sections for Technical Service and Spare Parts will work at best to help you if it were necessary.

To this purpose we advise you, for all control and overhaul operations, to turn to the nearest authorized Service Centre, where you will obtain a prompt and specialized intervention.

- In case you do not profit on these Services and some arts are replaced, please ask and be sure that are used exclusively original parts; this to guarantee that the performances and the initial safety prescribed by the norms in force are re-established.
- The use of non original spare parts will cancel immediately any guarantee and Technical Service obligation.

#### NOTES ABOUT THE MANUAL

Before actioning the machine please read this manual attentively. Follow the instructions contained in it, in this way you will avoid inconveniences due to negligence, mistakes or incorrect maintenance. The manual is for qualified personnel, who knows the rules: about safety and health, installation and use of sets movable as well as fixed.

You must remember that, in case you have difficulties for use or installation or others, our Technical Service is always at your disposal for explanations or interventions.

The manual for Use Maintenance and Spare Parts is an integrant part of the product. It must be kept with care during all the life of the product.

In case the machine and/or the set should be yielded to another user, this manual must also given to him.

Do not damage it, do not take parts away, do not tear pages and keep it in places protected from dampness and heat.

You must take into account that some figures contained in it want only to identify the described parts and therefore might not correspond to the machine in your possession.

#### INFORMATION OF GENERAL TYPE

In the envelope given together with the machine and/or set you will find: the manual for Use Maintenance and Spare Parts, the manual for use of the engine and the tools (if included in the equipment), the guarantee (in the countries where it is prescribed by law).

Our products have been designed for the use of generation for welding, electric and hydraulic system; ANY OTHER DIFFERENT USE NOT INCLUDED IN THE ONE INDICATED, relieves the manufacturer from the risks which could happen or, anyway, from that which was agreed when selling the machine. The manufacturer excludes any responsibility for damages to the machine, to the things or to persons in this case.

Our products are made in conformity with the safety norms in force, for which it is advisable to use all these devices or information so that the use does not bring damage to persons or things.

While working it is advisable to keep to the personal safety norms in force in the countries to which the product is destined (clothing, work tools, etc.).

Do not modify for any motive parts of the machine (fastenings, holes, electric or mechanical devices, others..) if not duly authorized in writing: the responsibility coming from any potential intervention will fall on the executioner as in fact he becomes maker of the machine.

who keeps the faculty, apart the essential characteristics of the model here described and illustrated, to bring betterments and modifications to parts and accessories, without putting this manual uptodate immediately.



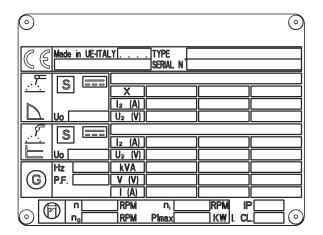


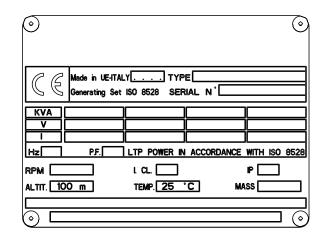


Any of our product is labelled with CE marking attesting its conformity to appliable directives and also the fulfillment of safety requirements of the product itself; the list of these directives is part of the declaration of conformity included in any machine standard equipment. Here below the adopted symbol:



CE marking is clearly readable and unerasable and it can be either part of the data-plate.





Furthermore, on each model it is shown the noise level value; the symbol used is the following:



10/10/02 M1-4 GB

(B) Declaration of conformity (E) Declaración de conformidad

(F) Déclaration de conformité (PT) Declaração de conformidade

M 1.4.1

REV.1-01/13

## BCS S.p.A.

Sede legale: Via Marradi 1 20123 Milano - Italia

#### Stabilimento di Cusago, 20090 (Mi) - Italia

V.le Europa 59 Tel.: +39 02 903521 Fax: +39 02 90390466



#### DICHIARAZIONE DI CONFORMITA'



Déclaration de Conformité – Declaration of Conformity – Konformitätserklärung Conformiteitsverklaring – Declaración de Conformidad

BCS S.p.A. dichiara sotto la propria responsabilità che la macchina:

BCS S.p.A. déclare, sous sa propre responsabilité, que la machine:

BCS S.p.A. declares, under its own responsibility, that the machine:

BCS S.p.A. erklärt, daß die Aggregate:

BCS S.p.A. verklaard, onder haar eigen verantwoordelijkheid, dat de machine:

BCS S.p.A. declara bajo su responsabilidad que la máquina:

GRUPPO ELETTROGENO DI SALDATURA / WELDING GENERATOR GRUPPO ELETTROGENO / POWER GENERATOR Marchio / Brand: MOSA Modello / Model: Matricola / Serial number

è conforme con quanto previeto dalle Direttive Comunita elative modifiche: est en conformité avec ce qui est prevu par les Directives Communautaires et relatives modifications: conforms with the Community Directives and related modifications: mit den Vorschriften der Gemeinschaft und deren Ergänzungen übereinstimmt: in overeenkomst is met de inhoud van gemeenschapsrichtlijnemen gerelateerde modificaties: comple con los requisítos de la Directiva Comunitaria y sus anexos:

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ing. Benso Marelli - Consigliere Delegato / COO; V.le Europa 59, 20090 Cusago (MI) - Italy

Cusago,

Ing. Benso Marelli Consigliere Delegato COO

(I) (GB) Technical data		GE 6000 SX/GS GE 6500 SX/GS	M 1.5
F			REV5-12/12
Technical data	GE 6000 SX/GS		
	GE 6000 SX/GS-AVR	GE 6500 SX/GS	
A.C. GENERATOR			
*Three-phase power Stand-by	-	6.5 kVA (5.2 kW) / 400 V / 9.4 A	
**Three-phase power PRP	-	5.7 kVA (4.6 kW) / 400 V / 8.2 A	
*Single-phase power Stand-by	5.7 kVA (5.1 kW) / 230 V / 24.8 A	-	
**Single-phase power PRP	5 kVA (4.5 kW) / 230 V / 21.7 A	4 kVA / 230 V / 17.4 A	
*Single-phase power Stand-by	5.7 kVA (6 kW) / 115 V / 49.6 A	-	
**Single-phase power PRP	5 kVA (5 kW) / 115 V / 43.5 A	-	
Frequency	50 Hz	50 Hz	
Power factor (cos φ)	0.9	0.8	
ALTERNATOR	self-excited, self-regulated, brushless	self-excited, self-regulated, with b	rush
Type	Single-phase, synchronous	Three-phase, synchronous	
Insulating class	Н	Н	
ENGINE			
Mark / Model	YANMAR / L 100 N		
Type / Cooling system	Diesel 4-Stroke / Air		
Cylinders / Displacement	1 / 435 cm <sup>3</sup>		
Net power Stand-by	6.5 kW (8.8 HP)		
Net power PRP	5.7 kW (7.7 HP)		
Speed	3000 rpm		
Fuel consumption	1.2l/h		
Engine oil capacity	1.61		
Starter	Electric		
GENERAL SPECIFICATIONS			
Fuel tank capacity	23 I		
Running time (75% of PRP)	19 h		
Protection	IP 23		
*Dimensions max. Lxwxh	1020x645x930		
*Weight (dry)	206 Kg	206 Kg	
Measured acoustic power LwA (LpA pression)	92 dB(A) (67 dB(A) @ 7 m)	91 dB(A) (66 dB(A) @ 7 m)	WA.
Guaranteed acoustic power LwA (LpA pression) * Dimensions and weight are inclusive of all parts.	93 dB(A) (68 dB(A) @ 7 m)	92 dB(A) (67 dB(A) @ 7 m)	■WA 4/GE

#### **OUTPUT**

Declared power according to ISO 8528-1 (temperature 25°C, 30% relative humidity, altitude 100 m above sea level). (\*Stand-by) = maximum available power for use at variable loads for a yearly number of hours limited at 500 h. No overload is admitted.

(\*\*Prime power PRP) = maximum available power for use at variable loads for a yearly illimited number of hours. The average power to be taken during a period of 24 h must not be over 80% of the PRP.

It's admitted overload of 10% each hour every 12 h.

In an approximative way one reduces: of 1% every 100 m altitude and of 2.5% for every 5°C above 25°C.

#### **ACOUSTIC POWER LEVEL**

**ATTENTION:** The concrete risk due to the machine depends on the conditions in which it is used. Therefore, it is up to the enduser and under his direct responsibility to make a correct evaluation of the same risk and to adopt specific precautions (for instance, adopting a I.P.D. -Individual Protection Device)

Acoustic Noise Level (Lwa) - Measure Unit dB(A): it stands for acoustic noise released in a certain delay of time. This is not submitted to the distance of measurement.

**Acoustic Pressure (Lp) - Measure Unit dB(A):** it measures the pressure originated by sound waves emission. Its value changes in proportion to the distance of measurement.

The here below table shows examples of acoustic pressure (Lp) at different distances from a machine with Acoustic Noise Level (Lwa) of 95 dB(A)

 4 35640GB

M 2

REV.0-11/99

#### SYMBOLS IN THIS MANUAL

 The symbols used in this manual are designed to call your attention to important aspects of the operation of the machine as well as potential hazards and dangers for persons and things.

#### **IMPORTANT ADVICE**

- Advice to the User about the safety:
- N.B.: The information contained in the manual can be changed without notice. Potential damages caused in relation to the use of these instructions will not be considered because these are only indicative.

  Remember that the non observance of the indications reported by us might cause damage to persons or things. It is understood, that local dispositions and/or laws must be respected.

#### **WARNING**



<u>Situations of danger - no harm to persons</u> <u>or things</u>

**Do not use without protective devices provided**Removing or disabling protective devices on the machine is prohibited.

## Do not use the machine if it is not in good technical condition

The machine must be in good working order before being used. Defects, especially those which regard the safety of the machine, must be repaired before using the machine.

#### SAFETY PRECAUTIONS



This heading warns of an <u>immediate</u> danger for persons as well for things. Not following the advice can result in serious injury or death.



## **WARNING**

This heading warns of situations which could result in injury for persons or damage to things.



## **CAUTION**

To this advice can appear a danger for persons as well as for things, for which can appear situations bringing material damage to things.



**IMPORTANT** 



NOTE



**ATTENTION** 

These headings refer to information which will assis you in the correct use of the machine and/or accessories.

(F)

REV.2-06/10

#### **SYMBOLS**



STOP - Read absolutely and be duly attentive



Read and pay due attention



**GENERAL ADVICE** - If the advice is not respected damage can happen to persons or things.



**HIGH VOLTAGE** - Attention High Voltage. There can be parts in voltage, dangerous to touch. The non observance of the advice implies life danger.



**FIRE** - Danger of flame or fire. If the advice is not respected fires can happen.



**HEAT** - Hot surfaces. If the advice is not respected burns or damage to things can be caused.



**EXPLOSION** - Explosive material or danger of explosion. in general. If the advice is not respected there can be explosions.



**WATER** - Danger of shortcircuit. If the advice is not respected fires or damage to persons can be caused.



**SMOKING** - The cigarette can cause fire or explosion. If the advice is not respected fires or explosions can be caused.



**ACIDS** - Danger of corrosion. If the advice is not respected the acids can cause corrosions with damage to persons or things.



**WRENCH** - Use of the tools. If the advice is not respected damage can be caused to things and even to persons.



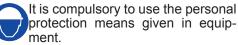
**PRESSION** - Danger of burns caused by the expulsion of hot liquids under pressure.

#### **PROHIBITIONS** No harm for persons

#### Use only with safety clothing -







#### Use only with safety clothing -



It is compulsory to use the personal protection means given in equipment.

#### Use only with safety protections -



It is a must to use protection means suitable for the different welding works.

#### Use with only safety material -



It is prohibited to use water to quench fires on the electric machines.

#### Use only with non inserted voltage -



It is prohibited to make interventions before having disinserted the voltage.

#### No smoking -



It is prohibited to smoke while filling the tank with fuel.

#### No welding -



It is forbidden to weld in rooms containing explosive gases.

### ADVICE No harm for persons and things

## Use only with safety tools, adapted to the specific use -

It is advisable to use tools adapted to the various maintenance works.

# Use only with safety protections, specifically suitable It is advisable to use protections suitable for the different welding works.

#### Use only with safety protections -



It is advisable to use protections suitable for the different daily checking works.

#### Use only with safety protections -



It is advisable to use all protections while shifting the machine.

#### Use only with safety protections -



It is advisable to use protections suitable for the different daily checking works.and/or of maintenance.



(F)

### **(B)** INSTALLATION AND ADVICE BEFORE USE

M 2-5

REV.0-06/00



The installation and the general advice concerning the operations, are finalized to the correct use of the machine, in the place where it is used as generator group and/or welder.

	Stop engine when fueling		Do not touch electric devices
	Do not smoke, avoid flames, sparks or electric tools when fueling.	RD	if you are barefoot or with wet clothes.
	Unscrew the cap slowly to let out the fuel vapours.		Always keep off leaning sur-
ш	Slowly unscrew the cooling liquid tap if the liquid must be topped up.	ВО	faces during work operations.
N U	The vapor and the heated cooling liquid under pressure can burn face, eyes, skin.	KING	Static electricity can demage
Ž	Do not fill tank completely.		the parts on the circuit.
	Wipe up spilled fuel before starting engine.	HEC	An electric shock can kill
	Shut off fuel of tank when moving machine (where it is assembled).	고 당	All electric shock call kill
	Avoid spilling fuel on hot engine.		
	Sparks may cause the explosion of battery vapours		



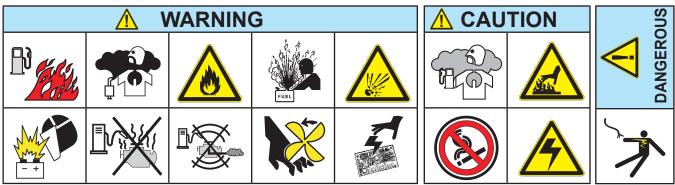
**FIRST AID.** In case the operator shold be sprayed by accident, from corrosive liquids a/o hot toxic gas or whatever event which may cause serious injuries or death, predispose the first aid in accordance with the ruling labour accident standards or of local instructions.

01: ( )	Luc 1 20 1 1
Skin contact	Wash with water and soap
Eyes contact	Irrigate with plenty of water, if the irritation persists contact a specialist
Ingestion	Do not induce vomit as to avoid the intake of vomit into the lungs, send for a doctor
Suction of liquids from	If you suppose that vomit has entered the lungs (as in case of spontaneous vomit) take the subject to the
lungs	hospital with the utmost urgency
Inhalation	In case of exposure to high concentration of vapours take immediately to a non polluted zone the person involved



FIRE PREVENTION. In case the working zone, for whatsoever cause goes on fire with flames liable to cause severe wounds or death, follow the first aid as described by the ruling norms or local ones.

EXTINCTION MEANS			
Appropriated	Carbonate anhydride (or carbon dioxyde) powder, foam, nebulized water		
Not to be used	Avoid the use of water jets		
Other indications	Cover eventual shedding not on fire with foam or sand, use water jets to cool off the surfaces close to the fire		
Particular protection	Wear an autorespiratory mask when heavy smoke is present		
Useful warnings	Avoid, by appropriate means to have oil sprays over metallic hot surfaces or over electric contacts (switches,plugs,etc.). In case of oil sprinkling from pressure circuits, keep in mind that the inflamability point is very low.		









REV.1-06/07

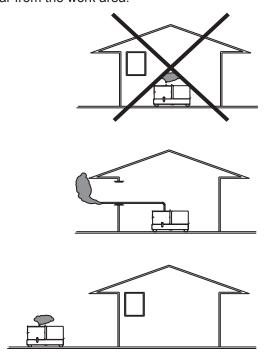
#### **INSTALLATION AND ADVICE BEFORE USE**

#### **GASOLINE ENGINES**

Use in open space, air swept or vent exhaust gases, which contain the deathly carbone oxyde, far from the work area.

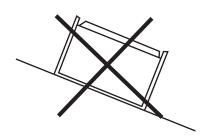
#### **DIESEL ENGINES**

Use in open space, air swept or vent exhaust gases far from the work area.

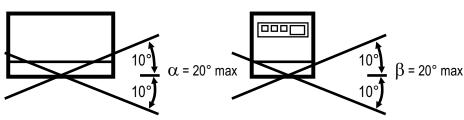


#### **POSITION**

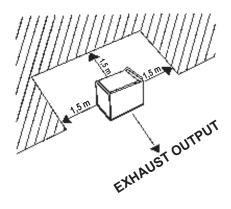
Place the machine on a level surface at a distance of at least 1,5 m from buildings or other plants.



Maximum leaning of the machine (in case of dislevel)



Check that the air gets changed completely and the hot air sent out does not come back inside the set so as to cause a dangerous increase of the temperature.



Make sure that the machine does not move during the work: **block** it possibly with tools and/or devices made to this purpose.

#### **MOVES OF THE MACHINE**

At any move check that the engine is **off**, that there are no connections with cables which impede the moves.

#### **PLACE OF THE MACHINE**

## **ATTENTION**

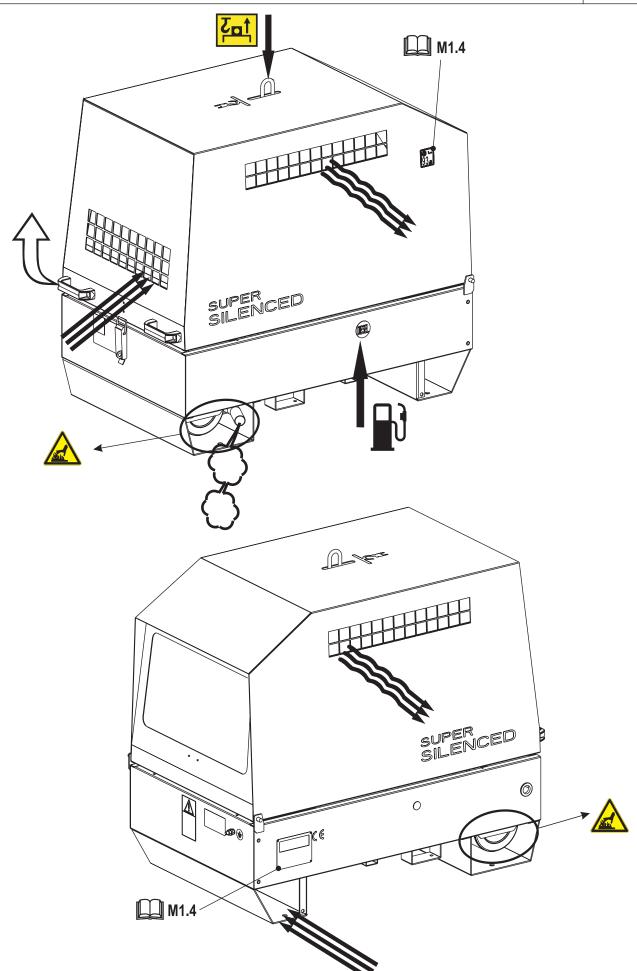


For a safer use from the operator **DO NOT** fit the machine in locations with high risk of flood.

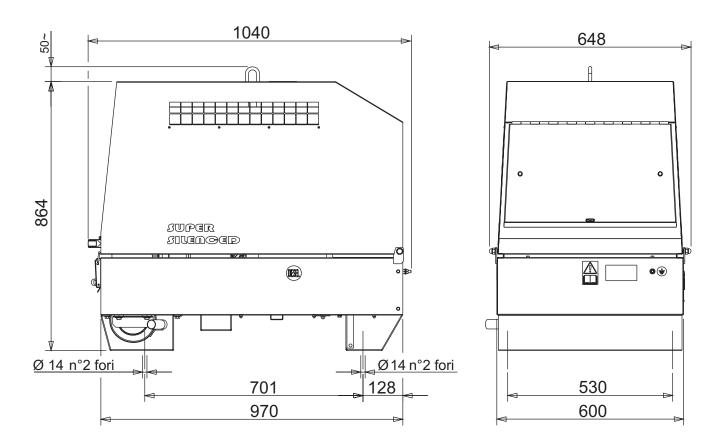
Please do not use the machine in weather conditions which are beyond IP protection shown both in the data plate and on page named "technical data" in this same manual.

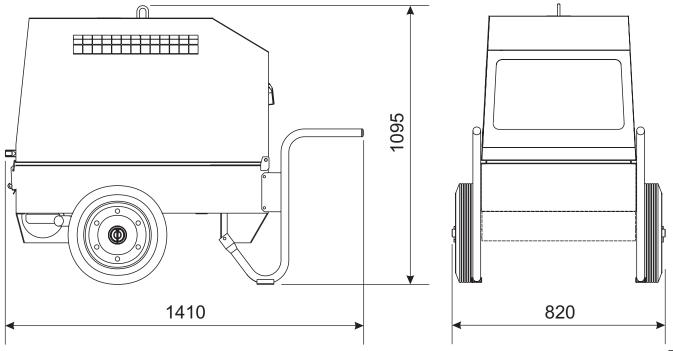


☐ Installazione ☐ Luftzirkulation ☐ GE 6000-6500 SX/GS ☐ M
☐ Installation ☐ Installación ☐ GE 7000 SX/GA-EAS ☐ 2.7
☐ Installation ☐ REV.1-09/06

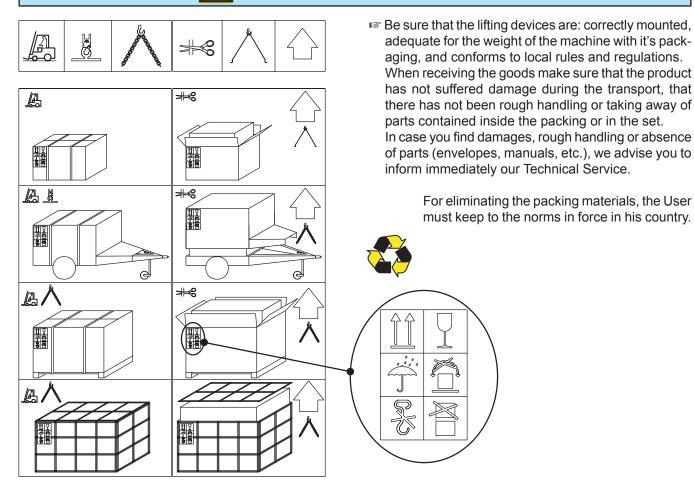


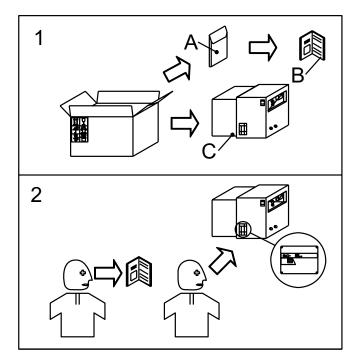
Dimensioni Dimensions	<ul><li>D Abmessungen</li><li>Dimensiones</li></ul>	GE 6000/6500 SX/GS GE 7000 SX/GA	M 2.7.1
F Dimensions	(NL)		REV.0-10/01





## **NOTE**





- 1) Take the machine (C) out of the shipment packing. Take out of the envelope (A) the user's manual (B).
- 2) Read: the user's manual (B), the plates fixed on the machine, the data plate.







(F)



## **NOTE**

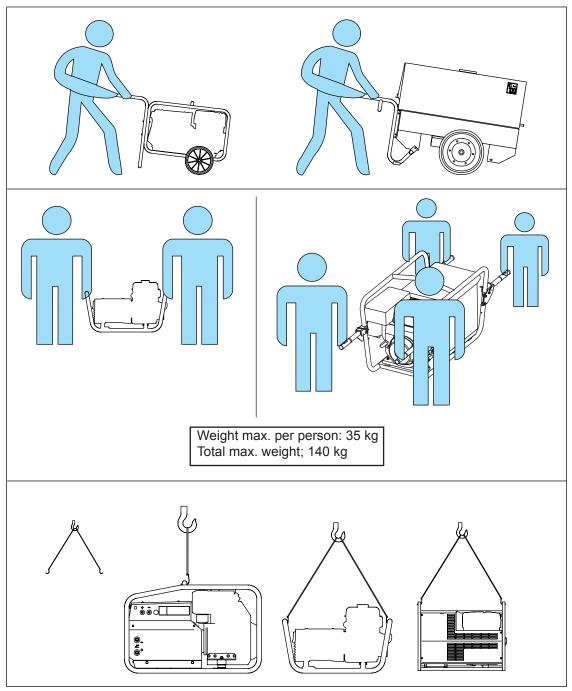
Transportation must always take place with the engine off, electrical cables and starting battery disconnected and fuel tank empty.

Be sure that the lifting devices are: correctly mounted, adequate for the weight of the machine with it's packaging, and conform to local rules and regulations.

Only authorized persons involved in the transport of the machine should be in the area of movement.

# <u>DO NOT</u> LOAD OTHER PARTS WHICH CAN MODIFY WEIGHT AND BARICENTER POSITION. IT IS STRICTLY <u>FORBIDDEN</u> TO DRAG THE MACHINE MANUALLY OR TOW IT BY ANY VEHICLE (model with no CTM accessory).

If you did not keep to the instructions, you could damage the structure of the machine.

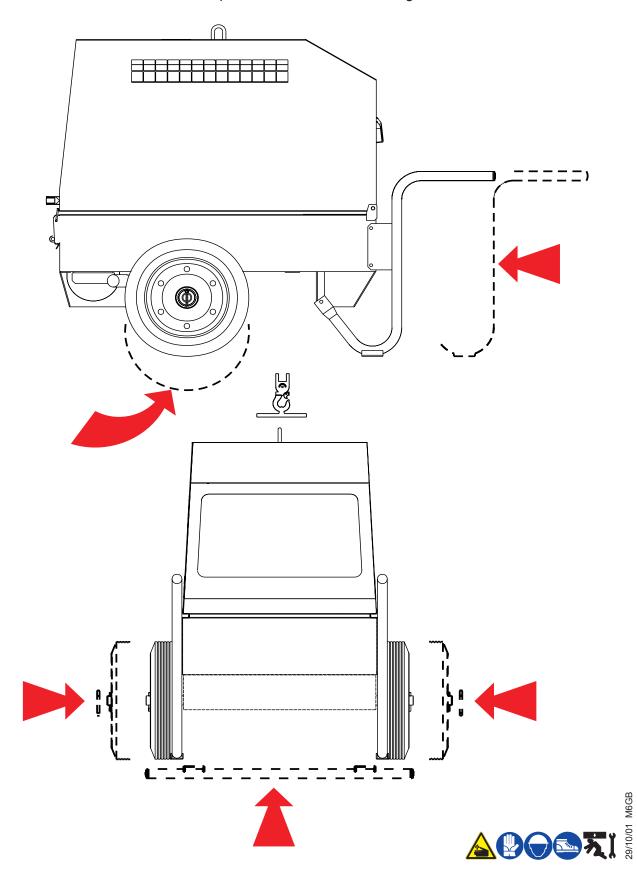


	CTM2	М
(B) ASSEMBLY		6.9
E		REV.0-06/00

## **ATTENTION**

The CTM accessory cannot be removed from the machine and used separately (actioned manually or following vehicles) for the transport of loads or anyway for used different from the machine movements.

Note: Lift the machine and assemble the parts as shown in the drawing



RFV 1-09/05





## **BATTERY WITHOUT MAINTENANCE**



Connect the cable + (positive) to the pole + (positive) of the battery (after having taken away the protection), by properly tightening the clamp.

Check the state of the battery

from the colour of the warning light which is in the upper part.

- Green colour: battery OK

- Black colour: battery to be recharged - White colour: battery to be replaced DO NOT OPEN THE BATTERY.



## **LUBRICANT**

#### RECOMMENDED OIL

MOSA recommends selecting AGIP engine oil. Refer to the label on the motor for the recommended products.



Please refer to the motor operating manual for the recommended viscosity.

#### **REFUELLING AND CONTROL:**

Carry out refuelling and controls with motor at level position.

- 1. Remove the oil-fill tap (24)
- 2. Pour oil and replace the tap
- 3. Check the oil level using the dipstick (23); the oil level must be comprised between the minimum and maximum indicators.



## ATTENTION

It is dangerous to fill the motor with too much oil, as its combustion can provoke a sudden increase in rotation speed.



#### DRY AIR FILTER

Check that the dry air filter is correctly installed and that there are no leaks around the filter which could lead to infiltrations of non-filtered air to the inside of the motor.



### **OIL BATH AIR FILTER**

Fill the air filter using the same engine oil up to the level indicated on the filter.



**FUEL** 



## **ATTENTION**



Do not smoke or use open flames during refuelling operations, in order to avoid explosions or fire hazards.

Fuel fumes are highly toxic; carry out operations outdoors only, or in a wellventilated environment.



Avoid accidentally spilling fuel. Clean any eventual leaks before starting up motor.

Refill the tank with good quality diesel fuel, such as automobile type diesel fuel, for example.

For further details on the type of diesel fuel to use, see the motor operating manual supplied.

Do not fill the tank completely; leave a space of approx. 10 mm between the fuel level and the wall of the tank to allow for expansion.

In rigid environmental temperature conditions, use special winterized diesel fuels or specific additives in order to avoid the formation of paraffin.



#### **GROUNDING CONNECTION**

The grounding connection to an earthed installation is obligatory for all models equipped with a differential switch (circuit breaker). In these groups the generator star point is generally connected to the machine's earthing; by employing the TN or TT distribution system, the differential switch guarantees protection against indirect contacts.

In the case of powering complex installations requiring or employing additional electrical protection devices, the coordination between the protection devices must be verified.

For the grounding connection, use the terminal (12); comply to local and/or current regulations in force for electrical installations and safety.









GE 6000/6500 SX/GS GE 6000/6500 DES/GS-L GE 7000 SX/GA M 21 REV.1-09/06

(F)

Check daily



## NOTE

Do not alter the primary conditions of regulation and do not touch the sealed parts.

#### STARTING THE ENGINE

Insert the electric protection device (D) lever towards above, see page M37 –



Introduce the key (Q1), turn it clockwise completely, leaving it as soon as the engine starts.

Let the engine run for some minutes before drawing the load.

#### STOPPING THE ENGINE

- Before stopping the engine **it is compulsory** to effect the following operations:
- stop to draw three/single-phase current from the auxiliary sockets.



Make sure that the unit is not supplying any power.

Disconnect the electrical protection device (D) lever downward.



Stop the engine turning the key (Q1) it counter clockwise, OFF position, then take it out.

NB.: for safety reason the key must be kept by qualified personel.



## **CAUTION**

If the engine fails to start, do not insist for at least 15 seconds.

Space the further operations waiting for at least 4 minutes.



## **CAUTION**

**RUNNING-IN** 

During the first 50 hours of operation, do not use more than 60% of the maximum output power of the unit and check the oil level frequently, in any case please stick to the rules given in the engine use manual.

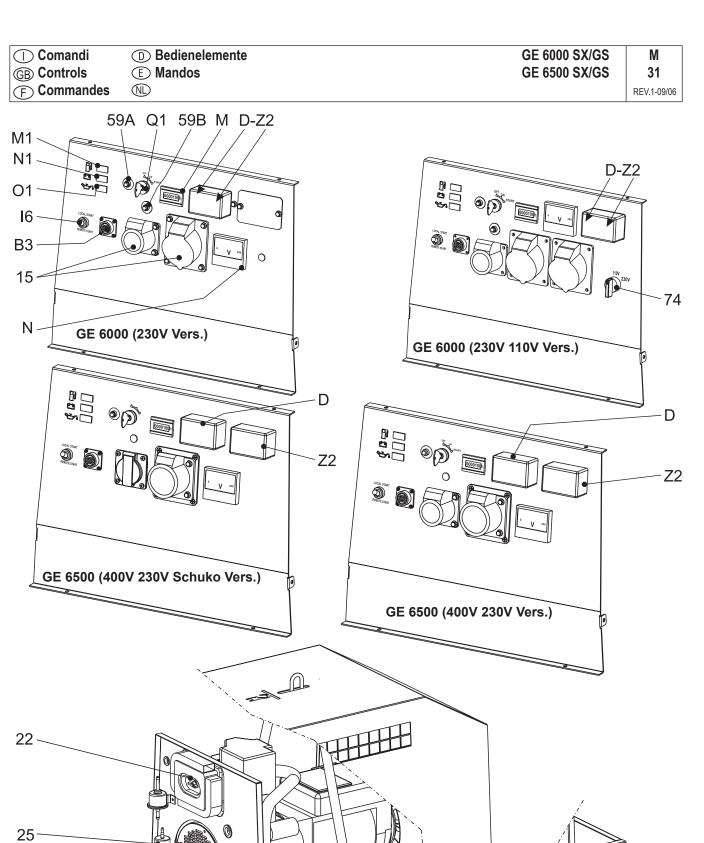
(I) (B) CONTROLS LEGENDE	M 30
(F)	REV.2-07/08

4A	Hydraulic oil level light	B4	Exclusion indicating light PTO HI
9	Welding socket ( + )	B5	Auxiliary current push button
10	Welding socket ( - )	C2	Fuel level light
12	Earth terminal	C3	E.A.S. PCB
15	A.C. socket	C6	Control unit for generating sets QEA
16	Accelerator lever	D	Ground fault interrupter (30 mA)
17	Feed pump	D1	Engine control unit and economiser
19	48V D.C. socket	σ.	EP1
22	Engine air filter	D2	Ammeter
23	Oil level dipstick	E2	Frequency meter
24	Engine oil reservoir cap	E6	Frequency rpm regulator
24A	Hydraulic oil reservoir cap	E7	Voltmeter regulator
24B	Water filling cap	F	Fuse
25	Fuel prefilter	F3	Stop switch
26	Fuel tank cap	F5	Warning light, high temperature
27	Muffler	F6	Arc-Force selector
28	Stop control	G1	Fuel level transmitter
29	Engine protection cover	H2	Voltage commutator
30	Engine cooling/alternator fan belt	H6	Fuel electro pump
31	Oil drain tap	H8	Engine control unit EP7
31A	Hydraulic oil drain tap	12	48V A.C. socket
31B	Water drain tap	13	Welding scale switch
31C	Exhaust tap for tank fuel	14	Preheating indicator
32	Button	15	Y/ switch
33	Start button	16	Start Local/Remote selector
34	Booster socket 12V	18	AUTOIDLE switch
34A	Booster socket 24V	L	A.C. output indicator
35	Battery charge fuse	L5	Emergency button
36	Space for remote control	L6	Choke button
37	Remote control	M	Hour counter
42	Space for E.A.S.	M1	Warning level light
42A	Space for PAC	M2	Contactor
47	Fuel pump	M5	Engine control unit EP5
49	Electric start socket	M6	CC/CV switch
54	Reset button PTO HI	N	Voltmeter
55	Quick coupling m. PTO HI	N1	Battery charge warning light
55A	Quick coupling f. PTO HI	N2	Thermal-magnetic circuit breaker/
56	Hydraulic oil filter	NE	Ground fault interrupter
59 50 A	Battery charger thermal switch	N5	Pre-heat push-button
59A	Engine thermal switch	N6	Connector - wire feader
59B 59C	Aux current thermal switch	01	Oil pressure warning light/Oil alert
59D	Supply thermal switch wire feeder-42V Pre-heater (spark plug) thermal switch	Р	Welding arc regulator Water in fuel
59E	Supply thermal switch oil/water heather	P8 Q1	Starter key
59F	Electropump thermal switch	Q3	Derivation box
63	No load voltage control	Q4	Battery charge sockets
66	Choke control	Q7	Welding selector mode
67A	Auxiliary / welding current control	R3	Siren
68	Cellulosic electrodes control	S	Welding ammeter
69A	Voltmeter relay	S1	Battery
70	Warning lights	S3	Engine control unit EP4
71	Selecting knob	S6	Wire feeder supply switch
72	Load commut. push button	S7	Plug 230V singlephase
73	Starting push button	T	Welding current regulator
74	Operating mode selector	T4	Dirty air filter warning light/indicator
75	Power on warning light	T5	Earth leakage relay
76	Display	T7	Analogic instrument V/Hz
79	Wire connection unit	U	Current trasformer
86	Selector	U3	R.P.M. adjuster
86A	Setting confirmation	U4	Polarity inverter remote control
87	Fuel valve	U5	Relase coil
88	Oil syringe	U7	Engine control unit EP6
A3	Insulation monitoring	V	Welding voltage voltmeter
A4	Button indicating light 30 I/1' PTO HI	V4	Polarity inverter control
B2	Engine control unit EP2	V5	Oil pressure indicator
B3	E.A.S. connector	W1	Remote control switch
		<b>W/3</b>	Selection puch button 30 I/1' DTO HI

W3

Selection push button 30 I/1' PTO HI

R	REV.2-07/08
W5 Battery voltmeter X1 Remote control socket Y3 Button indicating light 20 I/1' F Y5 Commutator/switch, serial/par Z2 Thermal-magnetic circuit brea Z3 Selection push button 20 I/1' F X5 Water temperature indicator	rallel aker



G1

26

S1

27 -



**(3)** 

 $\bigcirc$ 

**(B)** USE AS A GENERATOR

(F)

CT 230 SX **GE 6000 - 6500 SX/GS GE 7000 SX/GA** 

M 37

RFV 0-06/99

It is strictly forbidden to connect the group to the public mains a/o to another source of electric power.



## **WARNING**

Sockets are not self-locked: tension is avaible immediately after starting also with no plug.



## **WARNING**

The areas, access of which is forbidden to unqualified personel, are:

- the control switchboard (front), the exhaust of the endothermic engine.
- At the beginning of every work, check the electric parameters and/or the controls placed on the front.

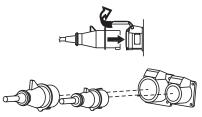
Make sure that the ground connection (12) is efficent (keep to installation local rules and/or to national laws), in order to integrate or ensure the working of varius electric protection devices referring to the several distribution system TT/TN/IT, operation unnecessary for machine with isometer.

- See page M 20-21.

Check the voltmeter (N) shows the voltage three or single-phase has to be drawn.

Nominal voltage	Indicative no-load voltage		
230V	+10%		
400V	+10%		

Connect up the machine, using proper plugs and cables in good condition to the AC socket (15) to draw single or three-phase power, or, by cables with adequate section, to the terminal board, placed inside the derivation box (Q3).



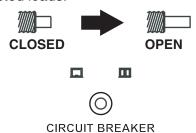
Using several sockets at tha same time, the maximum power possible is that indicated on the data plate.

The max. continuous power of the generating set or the load current must not be exceeded.

#### THERMOPROTECTION

If you overload the genset the thermoprotection will automatically switch off.

If the thermoprotection is released, disconnect all the connected loads.



Reset the thermoprotection pressing the central pole.

When reset, connect the loads again.

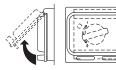
In case the protection should act furtherly, check: the connections, the wires or others, and if necessary call the Assistance Service.



Avoid to hold the central of pole the thermoprotection pressed for a long time. Otherwise, in case of

trouble, it will not click, damaging the generating set.

#### **GROUND FAULT INTERRUPTER (GFI)**



Turn on the GFI safety-switch (D) by pushing it upwards.

The GFI is a safety device which protects the circuit in the event of a malfunction. In this case the switch disconnects the three and single-phase circuit when in any part of the electric connections a current leakage of more than 30 mA occurs.









(F)

REMOTE CONTROL TCM 15 - 6 M 38.5 REV.1-07/11

 $\Lambda$ 

## **MAKE SURE**

When the TCM 15 - 6 is used, it is not possible to connect the E.A.S automatic intervention unit.

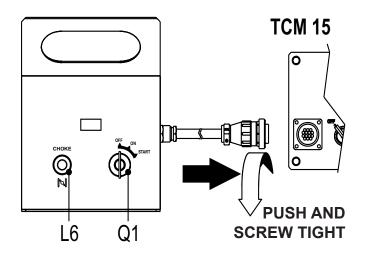
#### **USE OF THE REMOTE CONTROL TCM 15**

The coupling of the TCM 15 with the generating set, permits to work far from the set itself.

The remote control is connected to the front plate, with a multiple connector.

The TCM 15 assures the following fonctions:

- starting (starting key Q1)
- stop (starting key Q1)
- choke control (L6)



#### **USE OF THE REMOTE CONTROL TCM 6**

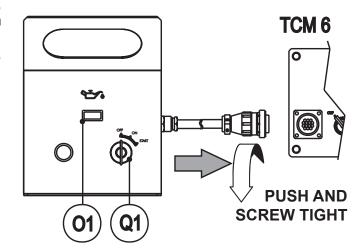
The coupling of the TCM 6 with the generating set, ready for remot starting, permits to work far from the set itself.

The remote control is connected to the front plate, and/or rear plate, with a multiple connector.

The TCM 6 assures the following fonctions:

- starting (starting key Q1)
- stop (starting key Q1)
- indication of oil low pressure (warning light O1)

To stop the set turn the key to the position "OFF".



**N.B.**: the position of the selector LOCAL START/REMOTE START (I6) on the generating sets must be on the position "REMOTE START".

## ENGINE PROTECTION ES - EV

M 39.4

REV..1-04/03

#### **ENGINE PROTECTION (ES - EV)**

The devices ES or EV ensure the protection of the engine in case of low oil pressure or engine high temperature.

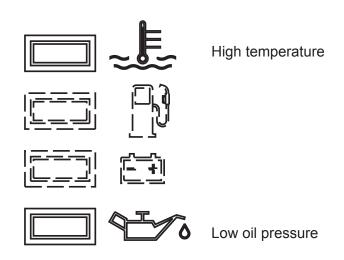
The system consist of electronic card of control and check, and of an engine stop device: solenoid (ElettroStop), electrovalve (ElettroValvola)

The device enter in operation when the engine starts and, in case of low oil pressure and high temperature, will stop the machine and show the cause of the stop with the warning light of high temperature or low oil pressure.

In case of low oil pressure, check the level and if it is correct, call the Service Station. In case of high temperature, make sure that there are no leaves and/or pieces of material obstructing the air ducts.

N.B.: if the unit is used as a generator in hot climates and with loads near to the maximum, the protection device can be triggered off, please reduce the load of the engine.

Once the cause of the problem is removed, to reset the protection, it is enough to report the ignition key (Q1) on "OFF" position and start the engine again.





## **NOTE**

THE ENGINE PROTECTIONS DO NOT WORK WHEN THE OIL IS OF LOW QUALITY BECAUSE NOT CHANGED REGULARLY AT INTERVALS AS PRESCRIBED IN THE OWNER'S ENGINE MANUAL.

## Diesel engine

M 40.2

REV.3-07/06

Problem	Problem Possible cause			Solution	
ENGINE					
The motor does not start up	1)	Start-up switch (I6) (where it is assembled) in incorrect position	1)	Check position	
	2) 3)	Emergency button (L5) pressed Preheating (where it is assembled)	2) 3)	Unblock Lacking or insufficient preheating phase for sparkplugs.	
	4) 5)	Engine control unit or starting key faulty. Battery low	4) 5)	Malfunction in circuit: repair. Replace Recharge or replace.	
	6) 7)	Battery cable terminals loose or corroded Start-up motor defective	6) 7)	Check the battery charge circuit on motor and automatic panel.  Tighten and clean. Replace if corroded.  Repair or replace.	
	8)	No fuel or air in feed circuit Malfunction on feed circuit: defective pump, injector blocked, etc.	8) 9)	Refill tank, un-aerate the circuit. Ask for intervention of Service Department.	
	11) 12)	Air filter or fuel filter clogged Air in the gasoil filter. Motor stopping device defective Malfunction on electrical power circuit on generator control panel	11) 12)	Clean or replace Take the air out filling the filter with gasoil. Replace. Check and repair.	
The motor does not accelerate. Inconstant speed.	1) 2)	Air filter or fuel filter clogged.  Malfunction on feed circuit: defective pump,	1) 2)	Clean or replace. Ask for intervention of Service Department.	
	3) 4)	injector blocked, etc. Oil level too high. Motor speed regulator defective.	3) 4)	Eliminate excess oil. Ask for intervention of Service Department	
Black smoke	1) 2) 3)	Air filter clogged. Overload. Injectors defective. Injection pump requires calibration.	1) 2) 3)	Clean or replace Check the load connected and diminish. Ask for intervention of Service Department.	
White smoke	1) 2)	Oil level too high.  Motor cold or in prolonged operation with little or no load.	1) 2)	Eliminate excess oil. Insert load only with motor sufficiently hot	
	3)	Segments and/or cylinders worn out.	3)	Ask for intervention of Service Department.	
Too little power provided by motor.	1) 2)	Air filter clogged. Insufficient fuel distribution, impurities or water in feed circuit.	1) 2)	Clean or replace. Check the feed circuit, clean and refill once again.	
	3)	Injectors dirty or defective.	3)	Ask for intervention of Service Department.	
Low oil pressure	1) 2) 3) 4)	Oil level insufficient Air filter clogged. Oil pump defective. Alarm malfunction.	1) 2) 3) 4)	Reset level. Check for leaks. Replace filter. Ask for intervention of Service Department. Check the sensor and electrical circuit.	
High temperature	1) 2)	Overload Insufficient ventilation.	1) 2)	Check the load connected and diminish. Check the cooling vent and relative transmission belts	
	3)	Insufficient coolant liquid (Only for water cooled motors)	3)	Restore level. Check for leaks or breakage in the entire cooling circuit, pipes, couplings, etc.	
	4)	Water radiator or oil clogged (where it is assembled)	4)	Clean cooling fins on radiator	
	5) 6)	Water circulating pump defective (Only for water cooled motors) Injectors defective. Injection pump requires	5) 6)	Ask for intervention of Service Department  Ask for intervention of Service Department	
	"	calibration  Alarm malfunction	7)	Check the sensor and electrical circuit	

## Diesel engine

M 40.2.1

REV.4-03/11

Problem		Possible cause		Solution		
GENERATOR						
Absence of output voltage	1) 2) 3) 4) 5) 6)	Voltage switch in position 0 Voltage switch faulty  Protection tripped due to overload Differential protection device tripped. (Differential switch, differential relay)  Protection devices defective Alternator not sparked  Alternator defective	1) 2) 3) 4) 5) 6)	Check position Check connections and working of the switch, repair or replace Check the load connected and diminish Check on the entire installation: cables, connections, utilities connected have no defective sheathing which may cause incorrect currents to ground Replace Carry out external spark test as indicated in alternator manual. Ask for intervention of Service Department Check winding, diodes, etc. on alternator (Refer to alternator manual) Repair or replace. Ask for intervention of Service Department		
No-load voltage too low or too high	1) 2) 3)	Incorrect motor running speed Voltage regulating device (where it is assembled) defective or requires calibration Alternator defective	1) 2) 3)	Regulate speed to its nominal no-load value Adjust regulator device as indicated in alternator manual, or replace. For generators with double voltage control AVR and COMPOUND, act on the excitation circuit as shown in the alternator manual. Check winding, diodes, etc. on alternator (Refer to alternator manual) Repair or replace Ask for intervention of Service Department		
Corrected no-load voltage too low with load	1) 2) 3)	Incorrect motor running speed due to overload Load with cos φ less than 0.8 Alternator defective	1) 2) 3)	Check the load connected and diminish Reduce or rephase load Check winding, diodes, etc. on alternator (Refer to alternator manual) Repair or replace Ask for intervention of Service Department		
Unstable tension	1) 2) 3)	Contacts malfunctioning Irregular rotation of motor Alternator defective	1) 2) 3)	Check electrical connections and tighten Ask for intervention of Service Department Check winding, diodes, etc. on alternator (Refer to alternator manual) Repair or replace Ask for intervention of Service Department		



## **WARNING**



**MOVING** 

**PARTS** 

can injure

Have <u>qualified</u> personnel do maintenance and troubleshooting work.
Stop the engine before doing any work inside the machine. If for any

- Stop the engine before doing any work inside the machine. If for any reason the machine must be operated while working inside, <u>pay at-</u> <u>tention</u> moving parts, hot parts (exhaust manifold and muffler, etc.) electrical parts which may be unprotected when the machine is open.
- Remove guards only when necessary to perform maintenance, and replace them when the maintenance requiring their removal is complete.
- Use suitable tools and clothes.
- Do not modify the components if not authorized.
  - See pag. M1.1 -



HOT surface can hurt you

NOTE

By maintenance at care of the utilizer we intend all the operatios concerning the verification of mechanical parts, electrical parts and of the fluids subject to use or consumption during the normal operation of the machine.

For what concerns the fluids we must consider as maintenance even the periodical change and or the refills eventually necessary.

Maintenance operations also include machine cleaning operations when carried out on a periodic basis outside of the normal work cycle.

The repairs <u>cannot be considered</u> among the maintenance activities, i.e. the replacement of parts subject to occasional damages and the replacement of electric and mechanic components consumed in normal use, by the Assistance Authorized Center as well as by manufacturer.

The replacement of tires (for machines equipped with trolleys) must be considered as repair since it is not delivered as standard equipment any lifting system.

The periodic maintenance should be performed according to the schedule shown in the engine manual. An optional hour counter (M) is available to simplify the determination of the working hours.



## **IMPORTANT**



In the maintenance operations avoid that polluting substances, liquids, exhausted oils, etc. bring damage to people or things or can cause negative effects to surroindings, health or safety respecting completely the laws and/or dispositions in force in the place.

#### **ENGINE and ALTERNATOR**

## PLEASE REFER TO THE SPECIFIC MANUALS PROVIDED.

Every engine and alternator manufacturer has



maintenance intervals and specific checks for each model: it is necessary to consult the specific engine or alternator USER AND MAINTENANCE manual.

#### **VENTILATION**

Make certain there are no obstructions (rags, leaves or other) in the air inlet and outlet openings on the machine, alternator and motor.

#### **ELECTRICAL PANELS**

Check condition of cables and connections daily. Clean periodically using a vacuum cleaner, **DO NOT USE COMPRESSED AIR.** 

#### **DECALS AND LABELS**

All warning and decals should be checked once a year and **replaced** if missing or unreadable.

#### STRENUOUS OPERATING CONDITIONS

Under extreme operating conditions (frequent stops and starts, dusty environment, cold weather, extended periods of no load operation, fuel with over 0.5% sulphur content) do maintenance more frequently.

## BATTERY WITHOUT MAINTENANCE DO NOT OPEN THE BATTERY

The battery is charged automatically from the battery charger circuit suppplied with the engine.

Check the state of the battery from the colour of the warning light which is in the upper part.

- Green colour: battery OK
- Black colour: battery to be recharged
- White colour: battery to be replaced



## **NOTE**

THE ENGINE PROTECTION NOT WORK WHEN THE OIL IS OF LOW QUALITY BECAUSE NOT CHARGED REGULARLY AT INTERVALS AS PRESCRIBED IN THE OWNER'S ENGINE MANUAL.

## **ATTENTION**

- Maintenance operations on the electricity-generating group prearranged for automatic operation must be carried out with the panel in RESET mode.
- Maintenance operations on the installation's electrical panels must be carried out in complete safety by cutting off all external power sources: ELECTRICAL POWER, GROUP and BATTERY.

For the electricity-generating groups prearranged for automatic operation, in addition to carrying out all periodic maintenance operations foreseen for normal usage, various operations must be carried out that are necessary in relation to the specific type of use. The electricity-generating group in fact must be continuously prepared for operation, even after prolonged periods of inactivity.

#### MAINTENANCE GENERATING SET WITH AUTOMATIC BOARD

	EVERY WEEK	EVERY MONTH AND/OR AFTER INTERVENTION ON LOAD	EVERY YEAR
TEST or AUTOMATIC TEST cycle to keep the generating set constantly operative	NO-LOAD X	WITH LOAD X	
2. Check all levels: engine oil, fuel level, battery electrolyte,, if necessary top it up.	X	X	
Control of electrical connections and cleaning of control panel		X	Х

● Carry out motor oil change at least once a year, even if the requested number of hours has not been attained.



M 45

REV.0-06/07

In case the machine should not be used for more than 30 days, make sure that the room in which it is stored presents a suitable shelter from heat sources, weather changes or anything which can cause rust, corrosion or damages to the machine.

Have **qualified** personnel prepare the machine for storage.

#### GASOLINE ENGINE

Start the engine: It will run until it stops due to the lack of fuel.

Drain the oil from the engine sump and fill it with new oil (see page M25).

Pour about 10 cc of oil into the spark plug hole and screw the spark plug, after having rotated the crankshaft several times.

Rotate the crankshaft slowly until you feel a certain compression, then leave it.

In case the battery, for the electric start, is assembled, disconnect it.

Clean the covers and all the other parts of the machine carefully.

Protect the machine with a plastic hood and store it in o dry place.

#### **DIESEL ENGINE**

For short periods of time it is advisable, about every 10 days, to make the machine work with load for 15-30 minutes, for a correct distribution of the lubricant, to recharge the battery and to prevent any possible bloking of the injection system.

For long periods of inactivity, turn to the after soles service of the engine manufacturer.

Clean the covers and all the other parts of the machine carefully.

Protect the machine with a plastic hood and store it in a dry place.

In case of necessity for first aid and of fire prevention, see page. M2.5.



## **IMPORTANT**



In the storage operations avoid that polluting substances, liquids, exhausted oils, etc. bring damage to people or things or can cause negative effects to surroindings, health or safety respecting completely the laws and/or dispositions in force in the place.



M 46

RFV 0-06/07

Have qualified personnel disassemble the machine and dispose of the parts, including the oil, fuel, etc., in a correct manner when it is to be taken out of service.

As cust off we intend all operations to be made, at utilizer's care, at the end of the use of the machine. This comprises the dismantling of the machine, the subdivision of the several components for a further reutilization or for getting rid of them, the eventual packing and transportation of the eliminated parts up to their delivery to the store, or to the bureau encharged to the cust off or to the storage office, etc.

The several operations concerning the cust off, involve the manipulation of fluids potentially dangerous such as: lubricating oil and battery electrolyte.

The dismantling of metallic parts liable to cause injuries or wounds, must be made wearing heavy gloves and using suitable tools.

The getting rid of the various components of the machine must be made accordingly to rules in force of law a/o local rules.

Particular attention must be paid when getting rid of:

lubricating oils, battery electrolyte, and inflamable liquids such as fuel, cooling liquid.

The machine user is responsible for the observance of the norms concerning the environment conditions with regard to the elimination of the machine being cust off and of all its components.

In case the machine should be cust off without any previous disassembly it is however compulsory to remove:

- tank fuel
- engine lubricating oil
- cooling liquid from the engine
- battery

**NOTE**: BCS is involved with custing off the machine **only** for the second hand ones, when not reparable. This, of course, after authorization.

In case of necessity for first aid and fire prevention, see page M2.5.



## **IMPORTANT**



In the cust-off operations avoid that polluting substances, liquids, exhausted oils, etc. bring damage to people or things or can cause negative effects to surroindings, health or safety respecting completely the laws and/or dispositions in force in the place.

#### Legenda schema elettrico

A : Alternatore

B : Supporto connessione cavi D : Interruttore differenziale

F : Fusibile

G : Presa 400V trifase
H : Presa 230V monofase
I : Presa 110V monofase

M : Contaore N : Voltmetro

G1: Trasmettitore livello carburante

L1 : Pressostato

M1 : Spia riserva carburante
N1 : Spia carica batteria
O1 : Spia pressostato
R1 : Motorino avviamento

S1: Batteria

U1 : Regolatore tensione batteriaV1 : Unità controllo elettrovalvola

Z1 : Elettrovalvola

Z2 : Interruttore magnetotermico

B3 : Connettore E.A.S.

N3 : Relè

P4: Protezione termica

Y5 : Commutatore Serie/Parallelo
H6 : Elettropompa carburante 12V c.c.
I6 : Selettore Start Local/Remote

#### Electrical system legende

A: Alternator

B: Wire connection unit

D: G.F.I. F: Fuse

G: 400V 3-phase socketH: 230V 1phase socketI: 110V 1-phase socketM: Hour-counter

N: Voltmeter

G1: Fuel level transmitterL1: Oil pressure switchM1: Fuel warning light

N1: Battery charge warning lightO1: Oil pressure warning light

R1: Starter motor

S1: Battery

U1: Battery charge voltage regulatorV1: Solenoid valve control PCBT

Z1: Solenoid valve

Z2: Thermal magnetic circuit breaker

B3: E.A.S. connector

N3: Relay

P4: Circuit breaker

Y5: Commutator/switch, series/parallelH6: Fuel electro pump 12V c.c.I6: Start Local/Remote selector

#### Legende des schemas electriques

A : Alternateur

B : Connexion câbles
D : Interrupteur différentiel

F: Fusible

G : Prise 400V triphasé H : Prise 230V monophasé I : Prise 110V monophasé

M : Compte-heuresN : VoltmètreG1 : Niveau carburantL1 : Pressostat huile

M1 : Voyant réserve carburant N1 : Voyant charge batterie O1 : Voyant pressostat

R1 : Moteur de démarrage

S1 : Batterie

U1 : Régulateur tension batterieV1 : Unite de contrôle électrosoupape

Z1 : Electrosoupape

Z2 : Interrupteur magnétothermique

B3: Connecteur E.A.S.

N3: Relais

P4 : Protection thermique Y5 : Commutateur Série/Parallèle H6 : Electropompe carburant I6 : Selecteur Start Local/Remote

### Stromlaufplan-Referenzliste

A Generator

B KlemmleisteD FI-Schalter (GFI)

F Sicherung

G Steckdose 400V 3-phasig H Steckdose 230V 1-phasig I Steckdose 110V 1-phasig

M Stundenzähler N Voltmeter

G1 Füllstandssensor Kraftstoff

L1 Öldruckschalter
 M1 Warnleuchte Kraftstoff
 N1 Warnleuchte Batterieladung
 O1 Warnleuchte Öldruck

R1 Anlasser S1 Batterie

U1 Laderegler BatterieV1 Steuereinheit Magnetventil

Z1 Magnetventil

Z2 Thermomagnetschalter (Si-Automat)

B3 Steckdose EAS/Fernstart

N3 Relais

P4 Thermosicherung

Y5 Anzeige Wassertemperatur

H6 Kraftstoffpumpe 12V I6 Umschalter Fernstart

#### Leyenda esquema eléctrico

A : Alternador

B : Soporte conexión cables D : Interruptor diferencial

F : Fusible

G : Toma 400V trifásica H : Toma 230V monofásica I : Toma 110V monofásica

M : CuentahorasN : Voltímetro

G1 : Captador nivel carburante

L1 : Presostato

M1 : Piloto reserva carburante
N1 : Piloto carga batería
O1 : Piloto presostato
R1 : Motor arranque
S1 : Batería

U1 :Regulador tensión batería V1 :Unidad control electroválvula

Z1 : Electroválvula

Z2 : Interruptor magnetotérmico

B3 : Conector E.A.S.

N3 :Relé

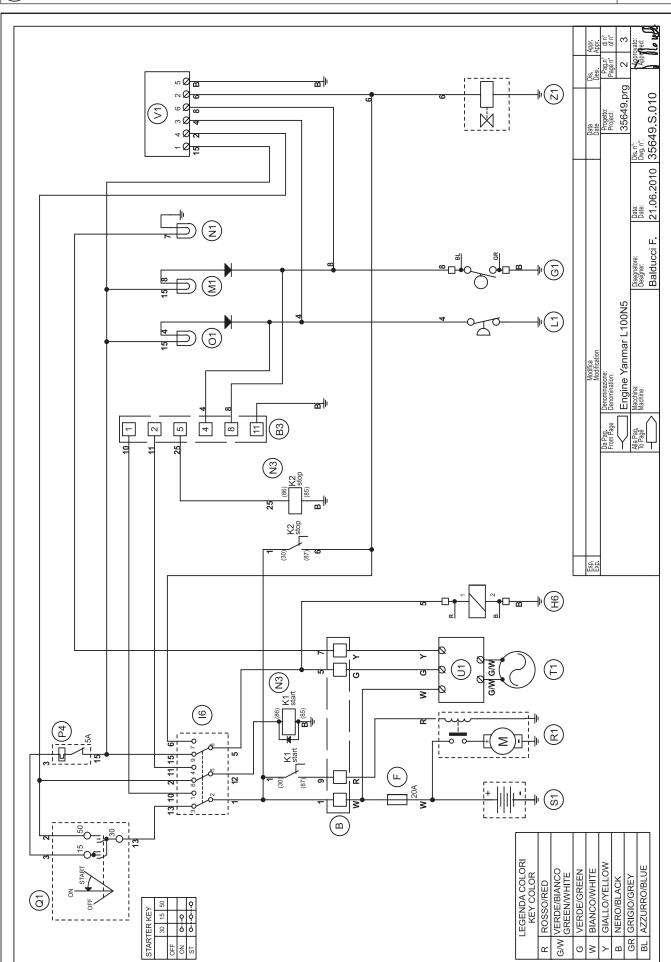
P4 : Protección térmica Y5 : Contactor Serie/Paralelo

H6 :Electrobomba carburante 12 V c.c I6 :Selector Start Local/Remote **GB** Electric diagram

F Schemas electriques

GE 6000/6500 SX/GS GE 7000 SX/GA M 61.1

REV.2-11/11



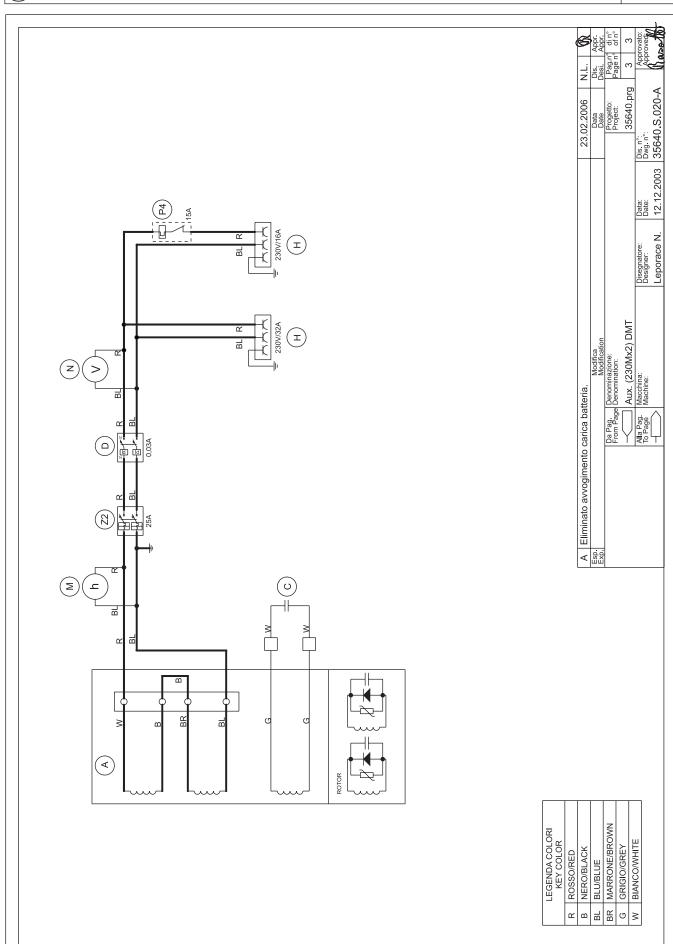
Schema elettrico

**B** Electric diagram

F Schemas electriques

GE 6000 SX/GS (230Mx2 vers.) M 61.2

REV.1-09/06

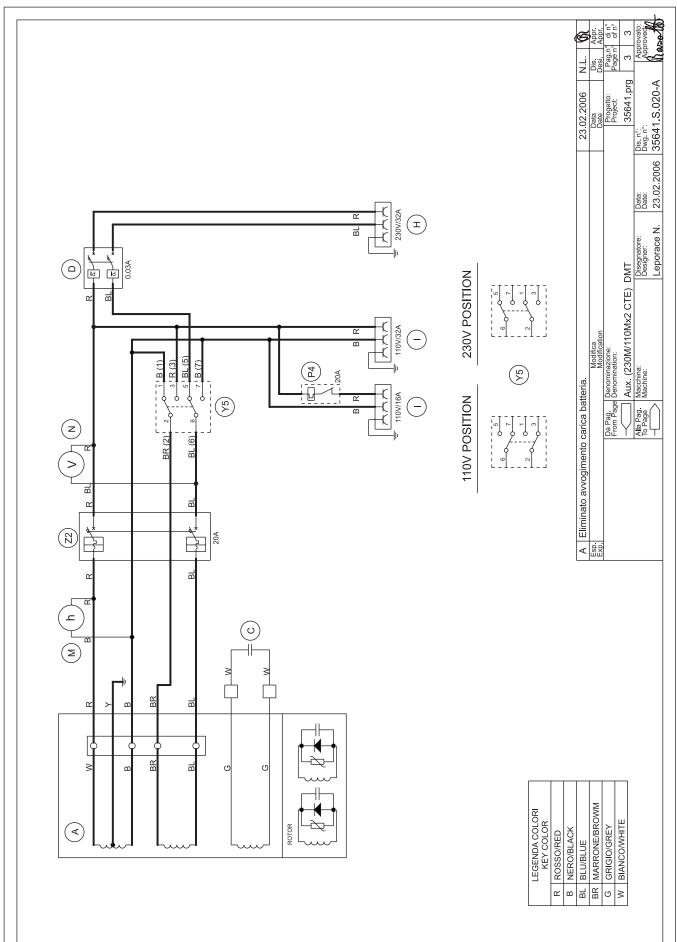


Electric diagram

F Schemas electriques

GE 6000 SX/GS (230M110M vers.) M 61.3

REV.1-09/06

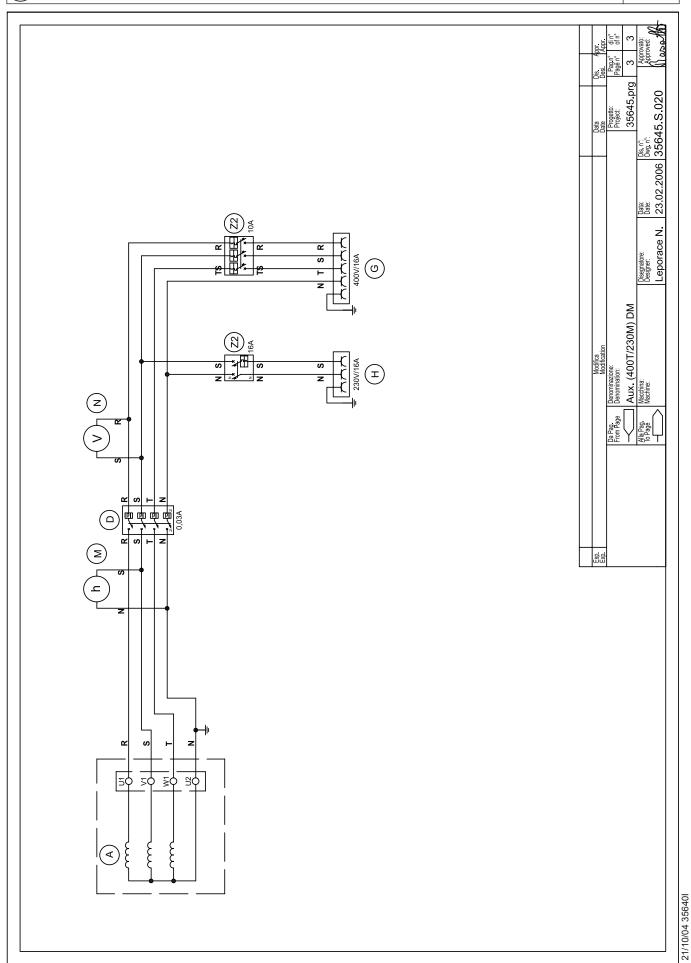


Electric diagram

F Schemas electriques

GE 6500 SX/GS (400T230M vers.) M 61.4

REV.1-09/06



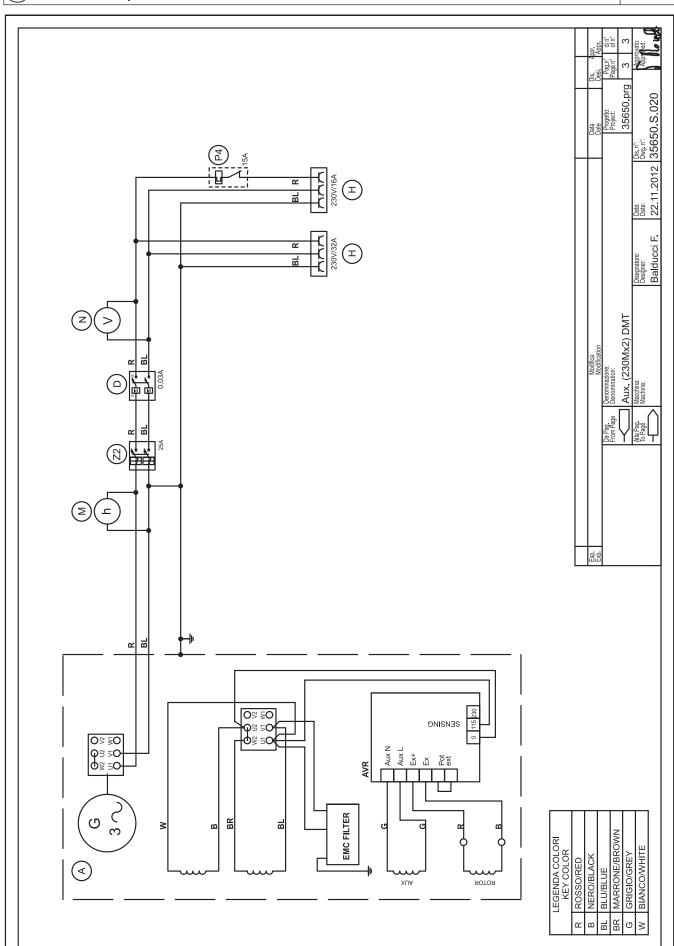
**B** Electric diagram

F Schemas electriques

GE 6000 SX/GS-AVR (230M vers.)

**61.5** REV.0-12/12

M

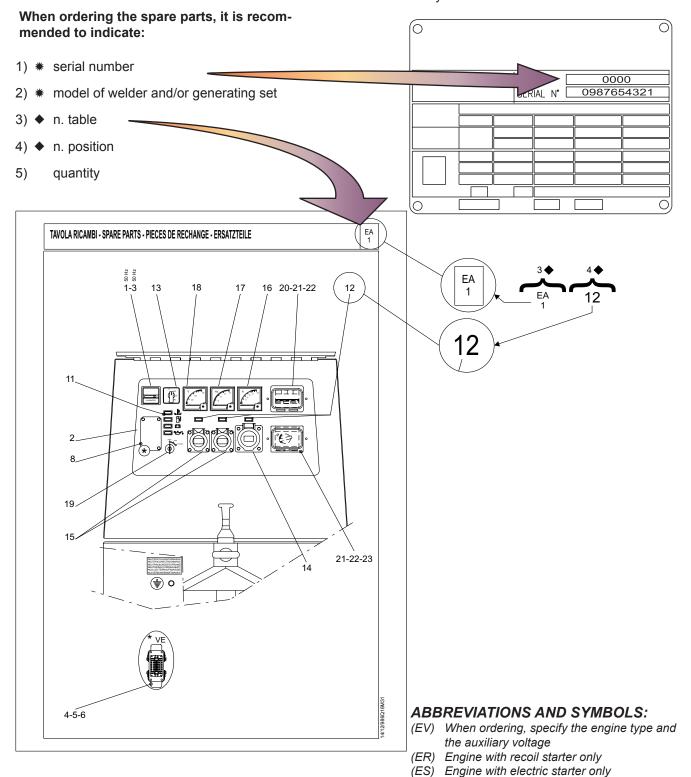


	R
® SPARE PARTS LIST	1
(E)	REV.0-03/00

## The manufacturer guarantees that any request for spare parts will be satisfied.

To keep the machine in full working order, when replacement spare parts is required, always ask for genuine parts only.

The requested data are to be found on the data plate located on the machine structure, quite visible and easy to consult. \*\*



(VE) E.A.S version only.

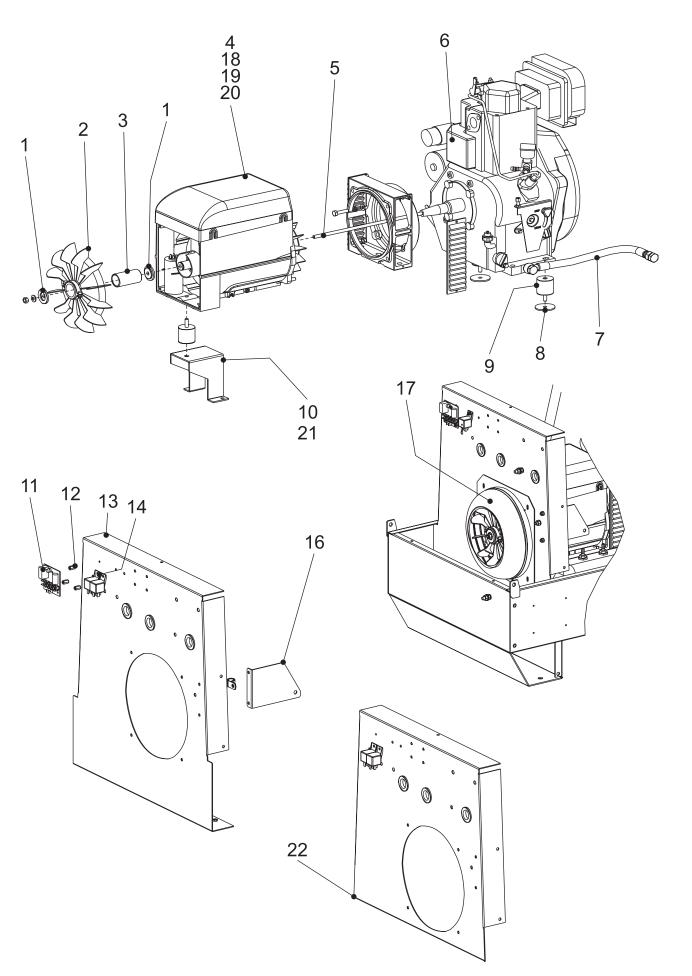
(VS) Special version only(SR) By request only

(QM) When ordering, specify the length in meters

 ☐ Ricambi
 ☐ Ersatzteile
 GE 6000 SX/GS
 HP

 ⑤B Spare parts
 ⑤ Tabla de recambios
 GE 6500 SX/GS
 42

 ⓒ Piéces de rechange
 ℕ
 REV.3-12/12



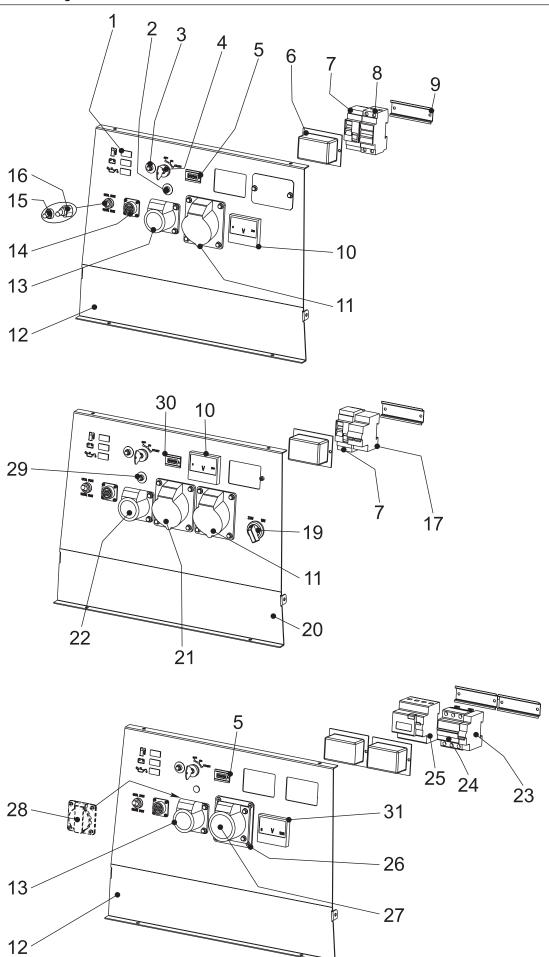
Ricambi Spare parts	<ul><li> Ersatzteile</li><li> Tabla de recambios</li></ul>	GE 6000 SX/GS GE 6500 SX/GS	HP 42.1
F Piéces de rechange	NL)		REV.3-12/12

	iéces de rechang	e ND	REV.3-12/1
Pos.	Cod.	Descr.	Note
1	M356403038	RONDELLA DI SICUREZZA	
2	M105111290	VENTOLA CON FASCETTA	
3	M356323039	DISTANZIALE FISS. VENTOLA	
4	M256703100	ALTERNATORE	fino a REV.10/04 Del.26/06 - 01/03/06
4	M356403100	ALTERNATORE	GE 6000 230Mx2 - da REV.1-09/06 Del.26/06 - 01/03/06
5	M356403036	TIRANTE	
6	M356402200	MOTORE YANMAR L100N	da REV.2-01/09 Del.44/08 - 25/2/08
6	MHP0152200	MOTORE YANMAR L100AE-DEG	da REV.1-09/06 Del.26/06 - 01/03/06
			fino a REV.1-09/06 Del.44/08 - 25/2/08
6	M372802200	MOTORE YANMAR L100AE-DEG	fino a REV.0-10/04 Del.26/06 - 01/03/06
7	M372802212	TUBO SCARICO OLIO	
8	M372802038	RONDELLA DI BLOCCAGGIO	
9	M356321035	ANTIVIBRANTE	
10	M356403101	SUPPORTO ALTERNATORE	
11	M209719850	SCHEDA EV/ES	
12	M282009807	DISTANZ. ISOLANTE PER SCHEDE	
13	M356408218	PARATIA ALTERNATORE	
14	M306479199	RELE' AVV. ELETTRICO	
15	M256022275	REGOLATORE DI TENSIONE	fino a REV.0-10/04 Del.26/06 - 01/03/06
16	M356401105	STAFFA FISSAGGIO MOLLA A GAS	
17	M356746010	CONVOGLIATORE ARIA	
18	M356413100	ALTERNATORE	GE 6000 230M 110M - da REV.1-09/06 Del.26/06 - 01/03/06
19	M356453100	ALTERNATORE	GE 6500 400T 230M - da REV.1-09/06 Del.26/06 - 01/03/06
20	M356503100	ALTERNATORE	GE 6000 AVR 230Mx2 - da REV.3-12/12 Del.137/12 - 03/12/12
21	M356503101	STAFFA SUPP. ALTERNATORE	GE 6000 AVR 230Mx2 - da REV.3-12/12 Del.137/12 - 03/12/12
22	M356508218	PARATIA ALTERNATORE	GE 6000 AVR 230Mx2 - da REV.3-12/12 Del.137/12 - 03/12/12
Pos.	Cod.	Descr.	Note
1	M356403038	LOCKING WASHER	
		<del>-</del>	
2	M105111290	FAN	
2	M105111290 M356323039	FAN FIXING FAN SPACER	
3			up to REV.0-10/04 Del.26/06 - 01/03/06
3 4	M356323039	FIXING FAN SPACER	up to REV.0-10/04 Del.26/06 - 01/03/06 GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06
3 4 4	M356323039 M256703100	FIXING FAN SPACER ALTERNATOR	•
3 4 4 5	M356323039 M256703100 M356403100	FIXING FAN SPACER ALTERNATOR ALTERNATOR	•
3 4 4 5 6	M356323039 M256703100 M356403100 M356403036	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06
3 4 4 5 6	M356323039 M256703100 M356403100 M356403036 M356402200	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06 from REV.2-01/09 Del 44/08-25/2/08
3 4 4 5 6 6	M356323039 M256703100 M356403100 M356403036 M356402200	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08 from REV.1-09/06 Del.26/06 - 01/03/06
3 4 4 5 6 6 6	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08
3 4 4 5 6 6 6 7	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG YANMAR ENGINE L100AE-DEG	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08
3 4 4 5 6 6 6 7 8	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG OIL EXHAUST PIPE	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08
3 4 4 5 6 6 6 7 8	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212 M372802038	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG OIL EXHAUST PIPE STOP WASHER	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08
3 4 4 5 6 6 6 7 8 9	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212 M372802038 M356321035	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08
3 4 4 5 6 6 6 7 8 9	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212 M372802038 M356321035 M356403101	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER ALTERNATOR SUPPORT	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08
4 4 5 6 6 7 8 9 10	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212 M372802038 M356321035 M356403101 M209719850	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER ALTERNATOR SUPPORT PCB EV/ES	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08
3 4 4 5 6 6 7 8 9 10 11 12 13	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212 M372802038 M356321035 M356403101 M209719850 M282009807	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER ALTERNATOR SUPPORT PCB EV/ES SPACER	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08
3 4 4 5 6 6 7 8 9 10 11 12	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212 M372802038 M356321035 M356403101 M209719850 M282009807 M356408218	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER ALTERNATOR SUPPORT PCB EV/ES SPACER ALTERNATOR WALL	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08
3 4 4 5 6 6 7 8 9 10 11 12 13 14	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212 M372802038 M356321035 M356403101 M209719850 M282009807 M356408218 M306479199	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG  OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER ALTERNATOR SUPPORT PCB EV/ES SPACER ALTERNATOR WALL RELAY, ELECTRIC START	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08  up to REV.0-10/04 Del.26/06 - 01/03/06
3 4 4 5 6 6 7 8 9 10 11 12 13 14 15	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212 M372802038 M356321035 M356403101 M209719850 M282009807 M356408218 M306479199 M256022275	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG  OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER ALTERNATOR SUPPORT PCB EV/ES SPACER ALTERNATOR WALL RELAY, ELECTRIC START VOLTAGE REGULATOR	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08  up to REV.0-10/04 Del.26/06 - 01/03/06
3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212 M372802212 M372802038 M356321035 M356403101 M209719850 M282009807 M356408218 M306479199 M256022275 M356401105	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER ALTERNATOR SUPPORT PCB EV/ES SPACER ALTERNATOR WALL RELAY, ELECTRIC START VOLTAGE REGULATOR SPRING BRACKET	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08  up to REV.0-10/04 Del.26/06 - 01/03/06
3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802202 M372802212 M372802038 M356321035 M356403101 M209719850 M282009807 M356408218 M306479199 M256022275 M356401105 M356746010	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG  OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER ALTERNATOR SUPPORT PCB EV/ES SPACER ALTERNATOR WALL RELAY, ELECTRIC START VOLTAGE REGULATOR SPRING BRACKET SHROUD FOR FAN	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08  up to REV.0-10/04 Del.26/06 - 01/03/06
3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802200 M372802212 M372802038 M356321035 M356403101 M209719850 M282009807 M356408218 M306479199 M256022275 M356401105 M356746010 M356413100	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG  OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER ALTERNATOR SUPPORT PCB EV/ES SPACER ALTERNATOR WALL RELAY, ELECTRIC START VOLTAGE REGULATOR SPRING BRACKET SHROUD FOR FAN ALTERNATOR	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08 from REV.1-09/06 Del.26/06 - 01/03/06 up to REV.1-09/06 Del.44/08-25/2/08 up to REV.0-10/04 Del.26/06 - 01/03/06  up to REV.0-10/04 Del.26/06 - 01/03/06
3 4 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19	M356323039 M256703100 M356403100 M356403036 M356402200 MHP0152200 M372802212 M372802212 M372802038 M356321035 M356403101 M209719850 M282009807 M356408218 M306479199 M256022275 M356401105 M356413100 M356413100	FIXING FAN SPACER ALTERNATOR ALTERNATOR TIE-ROD YANMAR ENGINE L100N YANMAR ENGINE L100AE-DEG  YANMAR ENGINE L100AE-DEG  OIL EXHAUST PIPE STOP WASHER VIBRATION DAMPER ALTERNATOR SUPPORT PCB EV/ES SPACER ALTERNATOR WALL RELAY, ELECTRIC START VOLTAGE REGULATOR SPRING BRACKET SHROUD FOR FAN ALTERNATOR	GE 6000 230Mx2 - from REV.1-09/06 Del.26/06 - 01/03/06  from REV.2-01/09 Del 44/08-25/2/08  from REV.1-09/06 Del.26/06 - 01/03/06  up to REV.1-09/06 Del.44/08-25/2/08  up to REV.0-10/04 Del.26/06 - 01/03/06  Up to REV.0-10/04 Del.26/06 - 01/03/06  GE 6000 230M 110M - from REV.1-09/06 Del.26/06 - 01/03/06  GE 6500 400T 230M - from REV.1-09/06 Del.26/06 - 01/03/06

 ☐ Ricambi
 ☐ Ersatzteile
 GE 6000 SX/GS
 HP

 ⑤B Spare parts
 ⑤ Tabla de recambios
 GE 6500 SX/GS
 43

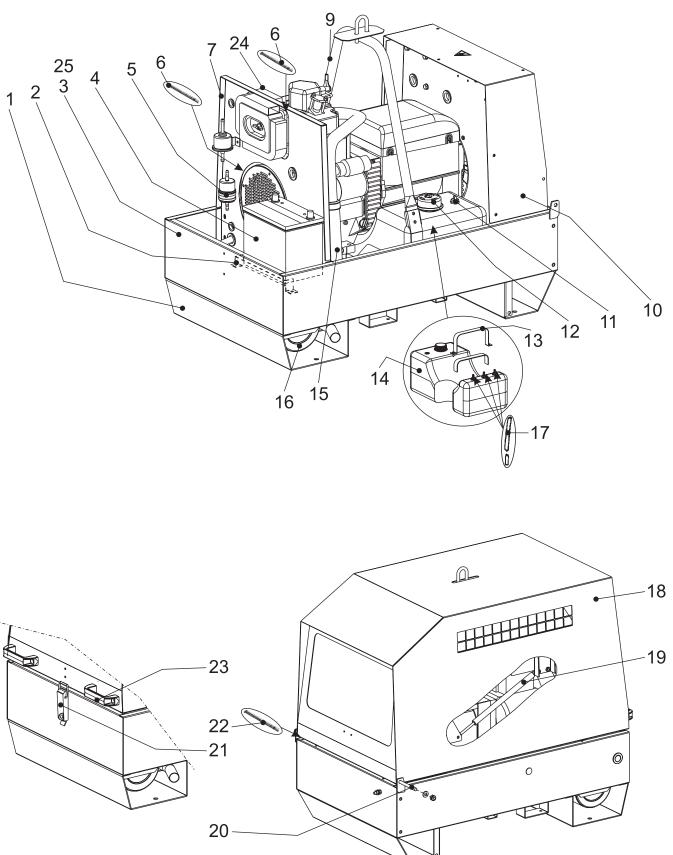
 ⓒ Piéces de rechange
 №



Ricambi	① Ersatzteile	GE 6000 SX/GS	HP
<b>GB</b> Spare parts		GE 6500 SX/GS	43.1
F Piéces de rechange			REV.4-12/12

(F)	Piéces de recha	nge (NL)	
Pos.	Cod.	Descr.	Note
1	M1302040	SPIA ROSSA 12V	Fino a REV.1-09/06-Del.287-11/01/08
1	M1302500	SPIA ROSSA 12V	Da REV.2-02/08-Del.287-11/01/08
2	M155307107	DISGIUNTORE TERMICO 15A-250V	
3	M352007109	PROTEZIONE TERMICA 5A	
4	M107302460	STARTER A CHIAVE	
5	M105511810	CONTAORE 230V 50Hz IP65	
6	M232027130	CAPPUCCIO PROTEZIONE I.D.	
7	M220237105	Vedi Cod.256007105	GE 6000
8 9	M256707325 M232027036	INT.MAGNETOTERMICO 2P 25A-B GUIDA	GE 6000 230 Version
10	M103011310	VOLTMETRO FONDO SCALA 300V	
11	M105011510	PRESA CEE 220V MONOF. 2P+T	
12	M356407020	FRONTALE	
13	M307017240	PRESA 220V 16A	
14	M35640C030	GR. CAVI EAS	Fino a REV.2-02/08 Del.39/11-29/3/11
14	M35649C030	GR. CAVI EAS	Da REV.3-11/11-Del.39/11-29/3/11
15	M102042740	CAPPUCCIO	
16	M102013290	COMMUTATORE	Fino a REV.2-02/08 Del.39/11-29/3/11
16	M107509902	COMMUTATORE TRIPOLARE	Da REV.3-11/11-Del.39/11-29/3/11
17 19	M256127325 M256417315	INTERRUT.MAGNETOTERMICO 2P 20A COMMUTATORE DI LINEA	GE 6000 230/110V Version GE 6000 230/110V Version
20	M356417020	FRONTALE	GE 6000 230/110V Version
21	M105111530	PRESA CEE 32A 110V 2 P+T	GE 6000 230/110V Version
22	M307047250	PRESA CEE 110V 16A 2 P+T	GE 6000 230/110V Version
23	M734507325	INTER.MAGNETOTERMICO 16A 1P+N	
24	M256557325	INTERRUT.MAGNETOTERM. 3P 10A	
25	M105111540	Vedi Cod.219937105	
26	M734517032	PIASTRINA RIDUZIONE	
27	M305907270	PRESA CEE 16A 400V 3P+N+T	OF CEOO Cabula Varian
28 29	M259107241 M306467107	PRESA SCHUKO 16A 230V - 2P+T DISGIUNT. TERMICO 20AMP 250V	GE 6500 Schuko Version GE 6000 230/110V Version
30	M356317330	CONTAORE 110V 50Hz	GE 6000 230/110V Version
31	M105111550	VOLTMETRO FS 500V	GE 0000 200/110 VOI 01011
Pos.	Cod.	Descr.	Note
1	M1302040	RED WARNING LIGHT 12V	Up to REV.1-09/06-Del.287-11/01/08
1	M1302500	RED WARNING LIGHT 12V	From REV.2-02/08-Del.287-11/01/08
2	M155307107	THERMAL SWITCH 15A-250V	
3	M352007109	THERMOPROTECTION	
4	M107302460	STARTER KEY	
5	M105511810	HOURMETER 230V 50Hz IP65	
6 7	M232027130 M220237105	CAP See Part n°256007105	
8	M256707325	CIRCUIT BREAKER 2 P 25AMP	GE 6000 230V
9	M232027036	FIXING GUIDE	GE 0000 230 V
10	M103011310	VOLTMETER 300V	
11	M105111520	EEC SOCKET SINGLE-PH.220V 2P+T	
12	M356407020	FRONT PANEL	
13	M307017240	EEC SOCKET 16A, 220V 2P+T	
14	M35640C030	EAS CABLES SET	
14	M35649C030	EAS CABLES SET CAP	From REV.3-11/11-Del.39/11-29/3/11
15 16	M102042740 M102013290	COMMUTATOR	
16	M107509902	COMMUTATOR THREE-P	From REV.3-11/11-Del.39/11-29/3/11
17	M256127325	CIRCUIT BREAKER 2P-20A	GE 6000 230/110V
19	M256417315	COMMUTATOR SWITCH 25A 2P	GE 6000 230/110V
20	M356417020	FRONT PANEL	GE 6000 230/110V
21	M105111530	EEC SOCKET 32A 110V 2 P+N	GE 6000 230/110V
22	M307047250	EEC SOCKET 110V 16A 2 P+N	GE 6000 230/110V
23	M734507325	CIRCUIT BREAKER 16A 1P+N	
24	M256557325	CIRCUIT BREAKER 3POLES 10 AMP	
25 26	M105111540 M734517032	See part no. 219937105 REDUCTION FOR SOCKET 32A/16A	
26 27	M305907270	EEC SOCKET 16A 400V 3P+N+T	
28	M259107241	SOCKET SCHUKO 16A 230V 2P+T	GE 6500 Schuko
29	M306467107	THERMOPROTECTION 20AMP 250 V	GE 6000 230/110V
30	M356317330	HOURMETER 110V 50HZ	GE 6000 230/110V
31	M105111550	VOLTMETER	

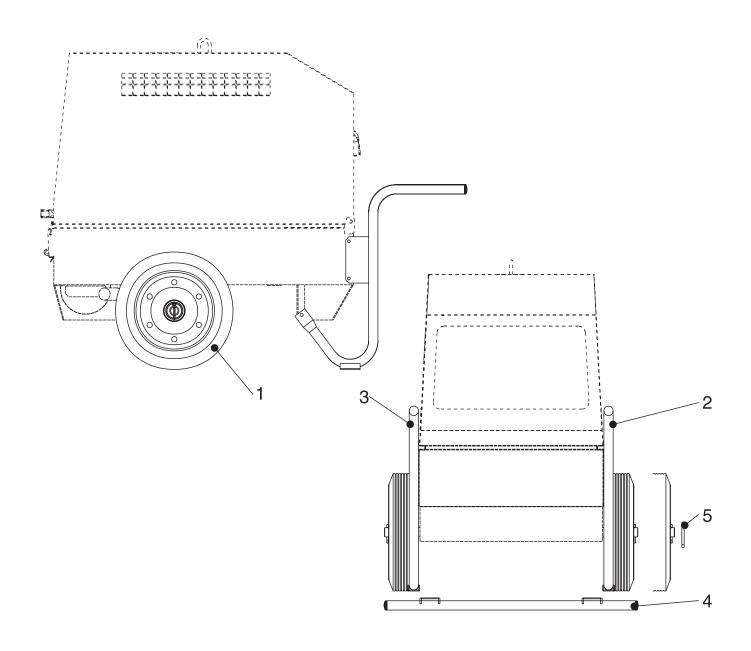
Ricambi B Spare parts	<ul><li>① Ersatzteile</li><li>② Tabla de recambios</li></ul>	GE 6000 SX/GS GE 6500 SX/GS	HP 44
F Piéces de rechange	NL		REV.4-12/12



Ricambi	① Ersatzteile	GE 6000 SX/GS	HP
<b>GB</b> Spare parts	<b>E</b> Tabla de recambios	GE 6500 SX/GS	44.1
F Piéces de rechange	NL)		REV.4-12/12

	iéces de rechange	e (NL)		REV.4-12/12
Pos.	Cod.	Descr.	Note	
1	M372801082	TRAVERSA PROTEZIONE SIL. SCAR.	77010	
2	M259109154	STAFFA FISSAGGIO BATTERIA		
3	M372801050	BASAMENTO		
4	M209509150	BATTERIA 45 AH	fino a REV.10/04 Del. 74/05 -15/7/05	
4	M372859150	BATTERIA 12V 45Ah	da REV.09/06 Del. 74/05 -15/7/05	
5	M256602228	FILTRO GASOLIO	da NE v.09/00 Dei. 14/03 -13/1/03	
6	M105112270	GUARNIZIONE (L=MT.1)	(QM)	
7	M356721046	PARATIA	fino a REV.1-09/06 Del.44/08-25/2/08	
7	MHP0211046	PARATIA	da REV.2-01/09 Del.44/08-25/2/08	
8	M6096010	PROFILATO GOMMA"U"(alett.vert)	(QM) fino a REV.2-01/09 Del.44/08-25/2/08	
9	M356721100	ROLL-BAR	(Q111) IIII Q 1121.2 0 1/00 201.1 1/00 20/2/00	
10	M372808121	COPERTURA SCATOLA ELETTRICA		
11	M372809875	INDICATORE RISERVA CARBURANTE		
12	M372802026	TAPPO SERBATOIO CARBURANTE		
13	M372802139	FASCIA FISSAGGIO SERBATOIO		
14	M372822020	SERBATOIO CARBURANTE		
15	M356722070	TUBO SCARICO	fino a REV. 1-09/06 Del.44/08-25/2/08	
15	MHP0212070	TUBO SCARICO	da REV.2-01/09 Del.44/08-25/2/08	
16	M356722050	SILENZIATORE SCARICO		
17	M6095060	TUBO GOMMA NERA	(QM)	
18	M357028005	CARENATURA		
19	M372808115	MOLLA A GAS		
20	M307018024	TIRANTE		
21	M107300180	CHIUSURA COMPL.A LEVA		
22	M309509005	GUARNIZIONE	(QM)	
23	M343339601	MANIGLIA		
24	MHP0211242	CORNICE FISS. PROFILATO GOMMA	da REV.2-01/09 Del.44/08-25/2/08	
25	M356501050	BASAMENTO	GE 6000 AVR 230Mx2 - da REV.4-12/12 Del.13	7/12-03/12/12
	0-4		Mada	
Pos.	Cod.	Descr.	Note	
1	M372801082	PROTECTIO BRACKET EXHAUST MUFFLER	Note	
1 2	M372801082 M259109154	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET	Note	
1 2 3	M372801082 M259109154 M372801050	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE		
1 2 3 4	M372801082 M259109154 M372801050 M209509150	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY	Up to REV.10/04 Del. 74/05 -15/7/05	
1 2 3 4 4	M372801082 M259109154 M372801050 M209509150 M372859150	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah		
1 2 3 4 4 5	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05	
1 2 3 4 4 5 6	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1)	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM)	
1 2 3 4 4 5 6 7	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM) Up to REV.1-09/06 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert)	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM) Up to REV.1-09/06 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802139	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802139 M372822020	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05  (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802139 M372802139 M372822020 M356722070	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 15	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802139 M372822020 M356722070 MHP0212070	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE EXHAUST PIPE	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05  (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 15 16	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M372808121 M372809875 M372802026 M372802139 M372822020 M356722070 MHP0212070 M356722050	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE EXHAUST MUFFLER	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05  (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08  Up to REV.1-09/06 Del. 44/08-25/2/08 From REV. 2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802139 M372822020 M356722070 MHP0212070 M356722050 M6095060	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE EXHAUST PIPE EXHAUST MUFFLER PIPE BLACK RUBBER	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05 (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802026 M372802139 M372822020 M356722070 MHP0212070 M356722050 M6095060 M357028005	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE EXHAUST PIPE EXHAUST MUFFLER PIPE BLACK RUBBER COVER, HOUSING	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05  (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08  Up to REV.1-09/06 Del. 44/08-25/2/08 From REV. 2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802026 M372802020 M356722070 MHP0212070 M356722050 M6095060 M357028005 M372808115	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE EXHAUST PIPE EXHAUST MUFFLER PIPE BLACK RUBBER COVER, HOUSING GAS SPRING	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05  (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08  Up to REV.1-09/06 Del. 44/08-25/2/08 From REV. 2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802139 M372802020 M356722070 MHP0212070 MHP0212070 M356722050 M6095060 M357028005 M372808115 M372808115 M307018024	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE EXHAUST PIPE EXHAUST MUFFLER PIPE BLACK RUBBER COVER, HOUSING GAS SPRING TIE-ROD FOR COVER	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05  (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08  Up to REV.1-09/06 Del. 44/08-25/2/08 From REV. 2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802139 M372802139 M372822020 M356722070 MHP0212070 MHP0212070 M356722050 M6095060 M357028005 M372808115 M307018024 M107300180	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE EXHAUST PIPE EXHAUST MUFFLER PIPE BLACK RUBBER COVER, HOUSING GAS SPRING TIE-ROD FOR COVER LATCH	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05  (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08  Up to REV.1-09/06 Del. 44/08-25/2/08 From REV. 2-01/09 Del.44/08-25/2/08  (QM)	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802139 M372802020 M356722070 MHP0212070 MHP0212070 M356722050 M6095060 M357028005 M372808115 M372808115 M307018024	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE EXHAUST PIPE EXHAUST MUFFLER PIPE BLACK RUBBER COVER, HOUSING GAS SPRING TIE-ROD FOR COVER	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05  (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08  Up to REV.1-09/06 Del. 44/08-25/2/08 From REV. 2-01/09 Del.44/08-25/2/08	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802139 M372802026 M372802139 M37282020 M356722070 MHP0212070 MHP0212070 M356722050 M6095060 M357028005 M372808115 M307018024 M107300180 M309509005	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE EXHAUST PIPE EXHAUST MUFFLER PIPE BLACK RUBBER COVER, HOUSING GAS SPRING TIE-ROD FOR COVER LATCH GASKET	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05  (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08  Up to REV.1-09/06 Del. 44/08-25/2/08 From REV. 2-01/09 Del.44/08-25/2/08  (QM)	
1 2 3 4 4 5 6 7 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	M372801082 M259109154 M372801050 M209509150 M372859150 M256602228 M105112270 M356721046 MHP0211046 M6096010 M356721100 M372808121 M372809875 M372802026 M372802139 M372802026 M372802139 M372820200 M356722070 MHP0212070 MHP0212070 M356722050 M6095060 M357028005 M372808115 M307018024 M107300180 M309509005 M343339601	PROTECTIO BRACKET EXHAUST MUFFLER BATTERY BRACKET BASE BATTERY battery 12v 45Ah FUEL FILTER STRIP, SEALING (L=MT.1) INTAKE CHAMBER BULKHEAD INTAKE CHAMBER BULKHEAD GASKET "U" (alett.vert) ROLL-BAR COVER FOR ELECTRICAL BOX FUEL LEVEL FLOAT FUEL TANK, CAP FIXING TANK, BAND FUEL TANK EXHAUST PIPE EXHAUST PIPE EXHAUST MUFFLER PIPE BLACK RUBBER COVER, HOUSING GAS SPRING TIE-ROD FOR COVER LATCH GASKET KNOB	Up to REV.10/04 Del. 74/05 -15/7/05 From REV.09/06 Del. 74/05 -15/7/05  (QM) Up to REV.1-09/06 Del.44/08-25/2/08 From REV.2-01/09 Del.44/08-25/2/08 (QM) Up to REV.2-01/09 Del.44/08-25/2/08  Up to REV.1-09/06 Del. 44/08-25/2/08 From REV. 2-01/09 Del.44/08-25/2/08  (QM)  (QM)	37/12-03/12/12

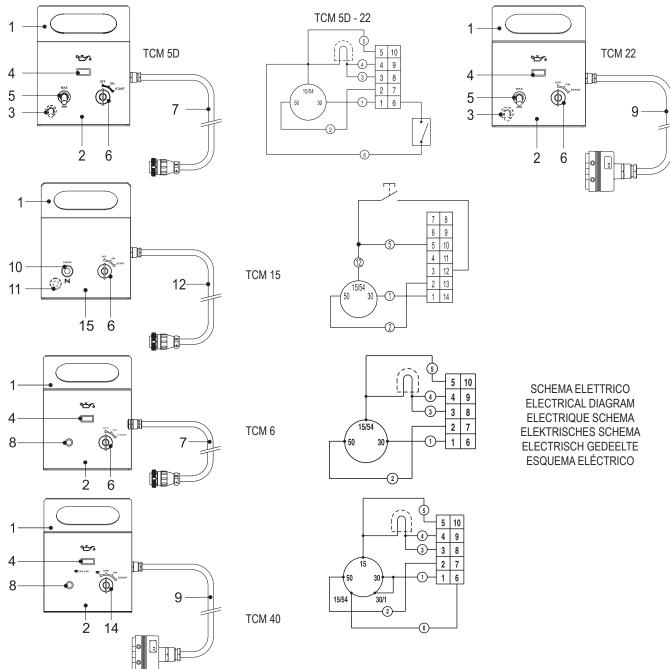
REV.0-10/01



Pos.	Rev.	Cod.	Descr.	Descr.	Note
1		M102042490	RUOTA	WHEEL	
2		M372801234	MANIGLIA DX DI STAZIONAMENTO	STANDING KNOB	
3		M372801235	MANIGLIA SX DI STAZIONAMENTO	STANDING KNOB (LEFT)	
4		M372801160	ASSALE	AXLE	
5		M6075020	COPIGLIA	PIN, SPLIT	







Pos.	Rev.	Cod.	Descr.	Descr.	Note	
1		M107509900	SCATOLA	CASE, BOTTOM HALF		1
2		M330109901	COPERCHIO PER SCATOLA TCM	TCM COVER		٦
3		M102042740	CAPPUCCIO	CAP		٦
4		M1302040	SPIA 12V	WARNING LIGHT 12V		٦
5		M102013290	COMMUTATORE	COMMUTATOR		٦
6		M107302460	STARTER A CHIAVE	STARTER KEY		٦
7		M33010C060	GRUPPO CAVI TC	TC CABLE KIT	TCM5D-6	٦
8		M6062050	TAPPO	CAP		٦
9		M33020C060	GR.CAVI TCM	TCM CABLE KIT	TCM22-40	٦
10	А	M101091830	PULSANTE DI STOP	BUTTON, STOP	TCM15	٦
11	А	M101091840	CAPPUCCIO	CAP	TCM15	٦
12	А	M93016C060	GRUPPO CAVI TCM	TCM CABLE KIT	TCM15	7
14	А	M307457055	INTERRUTT. ACCENSIONE A CHIAVE	STARTER SWITCH	TCM40	٥
15	Α	M930159901	COPERCHIO PER SCATOLA TCM	TCM COVER	TCM15	00/00/01



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