

ENGLISH

21/05/04 22243M00 preparato da UPT approvato da DITE

MOSA 1.1-10/04

The Engine Driven Welder is a block with an engine, an aluminium casting and a front panel. Inside the casting there are all electrical components of the machine: a permanent magnet alternator, a high frequency chopper diode bridge, an electronic control board and an electromagnet.

Main features:

- D.C. welding current 150A @ 60%
- Continuous regulation of the welding current with "Chopper Technology"
- Suitable for basic and rutile electrodes. A reactance for cellulose electrodes is available as an option
- Antistick function (small arc force)
- Continuous auxiliary output 1600 W/ 230 Vdc (max. power 2000 W)
- Auto idle function
- Weight 34 Kg.



Electrical components of the machine:

- Permanent magnet alternator: the alternator has 2 galvanically separated windings, one for welding and the other for the auxiliary output.
- Auto idle solenoid: an electromagnet inside the aluminium casting is supplied at no load only and forces the engine speed at minimum (2000 rpm). When the load is present, welding or auxiliary output, the electromagnet is not supplied any more and the engine speed goes to the maximum (4000 rpm rated open circuit).
- High frequency chopper diode bridge: it regulates the welding current using the "Chopper Technology", which chops the welding D.C. current at high frequency.
- Hall sensor: it measures with high precision the welding current and it's completely isolated from the welding circuit.
- Reactance for cellulose electrodes (optional).
- PWM control board: this single board controls the welding process, the auxiliary current and the electromagnet for the engine accelerator. Three integrated circuits PWM type (Pulse Width Modulation) have been used. The use of these PWM's not only for the welding control but also for the supply control of the electromagnet reduces to the minimum the wasted power on the electromagnet.
- D.C. chopped auxiliary output: the auxiliary output is chopped every 50 msec. in order to prevent of damages to switches of hand tools due to arcing. This special D.C. auxiliary is suitable not only for a universal hand tools with brushes, but also for those with electronic speed control. In this case the limit is that these tools can run at the maximum speed only, without possibility of speed regulation.





UNI EN ISO 9001 : 2000

MOSA has certified its quality system according to UNI EN ISO 9001:2000 to ensure a constant, high quality of its products. This certification covers the design, production and servicing of engine driven welders and generating sets.

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

This certification is not a point of arrival but a pledge on the part of the entire company to maintain a level of quality of both its products and services which will continue to satisfy the needs of its clients, as well as to improve the transparency and the communications regarding all the company's actives in accordance with the official procedures and in harmony 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 and their performance at competitive conditions;
- Competent support in the solution of problems;
- Information and training in the correct application and use of the products to assure the security of the operator and protect the environment;
- Regular inspections by ICIM to confirm that the requirements of the company's quality system and 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

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M 01 QUALITY SYSTEM

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MOSA

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▲ 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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GE_, MS_, TS_, EAS_

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INFORMATION

Dear Customer, We wish to thank you for having bought from MOSA 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 parts are replaced, please ask and be sure that are used exclusively original MOSA 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 from MOSA.

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 MOSA from the risks which could happen or, anyway, from that which was agreed when selling the machine; MOSA 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 by MOSA: the responsibility coming from any potential intervention will fall on the executioner as in fact he becomes maker of the machine.

Notice: this manual does not engage MOSA, 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.



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Fax: 02 - 90390466 e-mail : info@mosa.it www.mosa.it	Divisione dell V.le Europa 59 - 2009	a BCS S.p.A. 0 Cusago (Mi) - Italia	ICIM ISO 9001:2000 - Cert. 0192/
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CE The CE mark (European Community) certifies that the product complies with the essential safety requirements provided by the applicable COMMUNITY DIRECTIVES. In the Conformity Declaration are reported the HARMONIZED NORMS and not, used for the checking.

	105A 1.0-	(B) ADVICE	MAGIC WELD 2
	The inst machine	allation and the general advice , in the place where it is used as	concerning the operations, are finalized to the correct use of the generator group and/or welder.
- Ac	lvice to the	User about the safety:	
B	N.B.: The Potential only <u>indic</u> Rememb things. It is unde	e information contained in the m damages caused in relation to th <u>ative.</u> er that the non observance of rstood, that local dispositions ar	anual can be changed without notice. he use of these instructions will not be considered because these are the indications reported by us might cause damage to persons or nd/or laws must be respected.
		DANGEROUS	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.
	\triangle	WARNING	This heading warns of situations which could result in injury for persons or damage to things.
	\triangle	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.
	\triangle	IMPORTANT	These headings refer to information which will assis you
	\triangle	NOTE	In the correct use of the machine and/or accessories.
	\triangle	ATTENTION	

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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.

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
lungs	the subject to the 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.

The second second second second	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	Ę
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.	
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MAGIC WELD

Use only with safety clothing -It is compulsory to use the personal protection means given in equipment.

Use with safe materials only -



Use only with non inserted voltage -

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

No smoking -



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

Do not refuel -

Do not refuel when the engine is hot.



Switch off the engine prior to refuelling.

Fire -

EV FEER Fuel can cause fires.

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.

Exhaust gases -

F Exhaust gases from the engine can kill.

Petrol vapours -



Petrol vapours cause fires and can seriously damage your health.

Moving parts -



Moving parts are dangerous. Avoid touching any moving parts with your hands or fingers. Never wear loose clothing which may get trapped by moving parts.

SYMBOLS IN THIS MANUAL

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- 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.

GB SYMBOLS

This symbol is used to draw your attention to the fact that the welder is being used correctly and that the machine or equipment used operates perfectly.



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STOP - Read absolutely and be duly attentive



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.

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



ACCES FORBIDDEN to non authorizad peaple.

5A (1) (3) Advice Engine Driven Welder

ADVICE BEFORE USE

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The operator of the welder is responsible for the security of the people who work with the welder and for those in the vicinity.

The security measures must satisfy the rules and regulations for engine driven welders. The information given below is in addition to the local security norms.

DANGEROUS

Arc welders can be dangerous. Protect yourself and others from any possible risks which may cause death or serious injury.

- Do not touch any bare wires, leads or contacts as they may be live and there is danger of electric shock which can cause death or serious burns. The electrode and welding cables, etc. are live when the unit is operating.
- Do not touch any electrical parts or the electrode while standing in water or with wet hands, feet or clothes.
- Insulate yourself from the work surface while welding. Use carpets or other insulating materials to avoid physical contact with the work surface and the floor.
- ➡ Do not wind cables around the body.
- Always wear dry, insulating glovers, without holes, and body protection.

Estimate possible electromagnetic problems in the work area taking into account the following indications:

- Telephonic wirings and/or of communication, check wirings and so on, in the immediate vicinity.
- Radio and television receptors and transmettors.
- Computer and other checking devices.
- Critical devices for safety and/or for industrial checks.
- Peapol who, for instance, use pace-maker, hearing-aid for deaf or something and else.
- ➡ Devices used for rating and measuring.
- The immunity of other devices in the operation area of the welder. Make sure that other used devices are compatible. If it is the case, provide other additional measures of protection.
- The daily duration of the welding time.



It is forbidden to weld in rooms containing explosive gases.



- Keep flamable material away from the welding area.
- Do not weld on containers which contain flamable material.
- Do not weld near refuelling areas.
- Do not weld on easily flamable surfaces.



Protect face and eyes (protective mask with suitable dark lens and side screens), ears and body (non-flamable protective clothers).



- Avoid inhaling fumes by providing a ventilation system or, if not possible, use an approved air breather
- Do not work in closed areas where there is no fresh air flow.
- Do not use the welder to defrost (thaw) pipes.
- Use ear protections if the noise level is high.





°C: temperature Celsius grades
A: Ampere
B: pretrol
C.A.(c.a.): alternating current
C.C.(c.c.): direct current
cc: cm³ (volume)
CE: European norm conformity
CF: special for pipe welding
D: GFI
F: Fuse
g/kwh: grams/kilowatt hour (engine consumption)
GMP: permanent magnet alternator
Hz: frequency

I: single-phase auxiliary generation (symbol 1~) IP: protection grads for electric devices against acess to

dangerous parts according to the IEC 529 norm (Internal Protection)

kg: kilogram (mass)
K: welding cables set
kVA: kilovolt ampere
kW: kilowatt (engine power)
kWh: kilowatt hour (energy)
Lwa: maximum acoustic (power level) according to the regulations in force
mm: millimeter (length) (measure)
S: symbol of EN 60974-1
T: thermic switch
V: Volt

MOSA 1.0-05/04

INSTALLATION AND ADVICE BEFORE USE

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



MAGIC WELD

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.



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

MOVES OF THE MACHINE

IS At any move check that the engine is <u>off</u>, that there are no connections with cables which impede the moves.

PLACE OF THE MACHINE AND/OR EQUIPMENTS

In spots where it often rains and/or there are flooded areas, do **not** put the machine:



in the bad weather
 in flooded places.

Protect all the electric parts at risk, because water infiltrations could cause short circuits with damages at persons and/or things.

The protection degree of the machine is put on the data plate and in this manual at page "Technical Data".



Maximum leaning of the machine (in case of dislevel)



MOS **GB UNPACKING AND TRANSPORT MAGIC WELD** 1.1-10/04 E © MOSA NOTE Be sure that the lifting devices are: correctly mounted, adequate for the weight of the machine with it's packaging, and conforms to local rules and regulations. When receiving the goods make sure that the product has not suffered damage during the transport, that there has not been rough handling or taking away of parts contained inside the packing or in the set.

In case you find damages, rough handling or absence of parts (envelopes, manuals, etc.), we advise you to inform immediately our Technical Service.



For eliminating the packing materials, the User must keep to the norms in force in his country.



Take the machine (C) out of the shipment packing. 1) Take out of the envelope (A) the user's manual (B).

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A

- Fit the handle as shown in the instructions (fitting: 2) screws and spanner are supplied).
- 3) Read: the user's manual (B), the plates fixed on the machine, the data plate.

In case you should transport or move the machine, keep to the instructions as per the figures.

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.



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DSA (B) Set-up for operation

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

RECOMMENDED OIL

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



To check the oil level:

- 1. Remove the oil-fill tap (24) and clean the dipstick (23).
- 2. Insert the dip-stick into the oil filler without screwing it in.
- 3. If the oil level is low, fill with recommended oil up to the top of the oil filler

Oil fill tap / dip-stick



Upper oil level

MOTORS WITH OIL ALERT DEVICE

The "Oil Alert" system is designed to prevent damage to the motor due to an insufficient quantity of oil in the cup. This system automatically shuts off the motor before the oil level falls below the safety limit.

If the motor does not start up again after shutting itself off, check the oil level.



Fill the tank with gasoline for automobiles (preferably lead free or with low lead content in order to reduce deposits in the combustion chamber to a minimum).

For further details on the type of gasoline 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.



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.

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.

Do not use without protective devices provided

Removing or disabling protective devices on the machine is prohibited.



check daily

GB Engine starting

NOTE

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

1. Turn the fuel cock (87) to ON.



- 2. Switch the choke control (66) to CLOSE
- **N.B.**: Do not use the air valve if the motor is hot or the air temperature is too high.



3. Turn the engine switch (28) to the ON position



Lightly pull the start-up knob (73) until meeting resistance, then pull decisively.

R ATTENTION:

Allow the start-up knob to re-enter slowly, avoiding having it knock against the motor and thereby damaging the start-up system.



- 4. When the engine is started the machine reaches maximum engine speed immediately (4000 rpm) for 6/7 seconds, after which the engine speed automatically decreases to minimum (2000 rpm). The minimum is set by the solenoid which acts on the accelerator lever.
- 5. The engine reaches maximum speed only when current is drawn in welding or auxiliary power mode.

Before stopping the engine it is compulsory:

- Disconnect or close any power load connected to the system's auxiliary generation.
- Interrupt welding.



To shut down the motor:

o shut down the motor in case of emergency, turn the motor switch (28) to OFF.

In normal conditions, wait for the engine to reach minimum speed automatically 6/7 seconds after the load has been excluded. Turn the engine in these conditions for a few minutes so that it can cool down and then turn the engine switch (28) to OFF.



Turn the fuel valve to the OFF position.









Pos.	Descrizione	Description	Description	Descripción
9	Prese di saldatura (+)	Welding sockets (+)	Prises de soudage (+)	Tomas de soldadura (+)
10	Prese di saldatura (-)	Welding sockets (-)	Prises de soudage (-)	Tomas de soldadura (-)
12	Presa di messa a terra	Earth terminal	Prise de mise à terre	Toma de puesta a tierra
15	Presa di corrente in c.a.	A.C. socket	Prises de courant en c.a.	Toma de corriente en c.a
22	Filtro aria motore	Engine air filter	Filtre air moteur	Filtro aire motor
23	Asta livello olio motore	Oil level dipstick	Jauge niveau huile moteur	Aguja nivel aceite motor
24	Tappo caricamento olio motore	Engine oil reservoir cap	Bouchon remplissage huile moteur	Tapón llenado aceite motor
26	Tappo serbatoio	Fuel tank cap	Bouchon réservoir	Tapón depósito
27	Silenziatore di scarico	Muffler	Silencieux d'échappement	Silenciador de descarga
28	Comando stop	Stop control	Commande stop	Mando stop
31	Tappo scarico olio motore	Oil drain tap	Bouchon décharge huile moteur	Tapón vaciado aceite motor
66	Comando choke	Choke button	Bouton Choke	Pulsador Choke
73	Comando manuale avviamento	Starting push button	Commande manuelle démarrage	Mando manual arrangue
87	Rubinetto carburante	Fuel cock	Robinet de l'essence	Grifo de combustible
F	Fusibile	Fuse	Fusible	Fisible
T	Regolatore corrente di saldatura	Welding current regulator	Régulateur courant soudage	Regulador corr. de soldadura

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WARNING

Areas for which access by non-authorized personnel is **forbidden** are:

- the control panel (at the front) - the endothermic motor discharge.

CONNECT WELDING CABLES

Insert the welding cable plugs completely in the sockets, turning clockwise to lock them in place.



Connect the earth clamp to the negative pole and the electrode holder to the positive.

- Pay attention to the two polarities on the welding circuit, which must not come into electrical contact with each other.
- Carefully tighten the output cables to the bushings; if loose, they can cause problems of overheating and damage the bushings, cables, etc.
- Make certain the grounding pincer is connected as near as possible to the work station.

ADJUSTING THE WELDING CURRENT

The welding current is regulated by turning knob "T" continuously. If set to the minimum (turned fully in an anticlockwise direction) it provides a current of approximately 30 A; if set to the maximum (turned fully in a clockwise direction) it gives a maximum current of approximately 150A.



RECOMMENDED ELECTRODES

All the electrodes on the market can be used, however for cellulose electrodes we recommend Magic Weld with added reactor.

To reduce the risk of electromagnetic interference, keep the welding cable length short and keep them on or near the ground. If possible, welding operations should not be done near sensitive electronic devices. If interference continues to occur, adopt additional measures: shift the group, use shielded cables, line filters, shield the entire work area.

If the above solutions do not suffice, consult our Technical Servicing Department.

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MAGIC WELD

M 34.1

 \bigcirc MOSA (B) Use as a welder 1.1-11/05 E © MOSA

AUTO IDLE

Adjusting the maximum engine speed

Operation

When the engine is switched on it immediately reaches a maximum speed of 4000 rpm for approximately 6/7 seconds for easy start up, after which it automatically decreases and idles at 2000 rpm. It remains at this speed until current is drawn when set to weld or auxiliary power.

When set to weld mode the machine reaches maximum engine speed as soon as there is minimum contact between the tip of the electrode and the piece to be welded and also when set to generation drawing a minimum of 250 - 300 W

The machine returns to minimum 6/7 seconds later if power is not drawn during welding or generation.

Checking and adjusting idling speed

- Check idling speed when COLD;
- -When the engine is switched on it reaches maximum speed: after 6/7 seconds it decreases automatically to idle. Check the speed when the engine idles;
- The idling speed corresponds to 33-35 Vdc (only for Italy 42-45 Vdc) at the welding sockets or the equivalent at 2000-2200 rpm.

Minimum welding voltage TOO LOW

- From Fig. 1 proceed as follows:
- when the machine idles (engine cold)
- Keep pin A locked (8 mm spanner) and unscrew nut B (7 mm spanner)
- Again with pin A locked, turn nut C clockwise (7 mm spanner) 1 - 3 mm: The more it is extended the more the idle speed increases
- Tighten nut B on pin A and check the idling speed.

Minimum welding voltage TOO HIGH

- From Fig. 1 proceed as follows:

- When the machine idles (engine cold)
- tKeep pin A locked (8 mm spanner) and unscrew nut B 1-3 mm (7 mm spanner)
- Again with pin A locked, turn nut C anticlockwise (7 mm spanner) until nut B touches pin A
- Tighten nut B against pin A and check that the idling speed is correct.



To check that the maximum engine speed is correct simply measure the welding voltage (under no-load conditions) at maximum engine speed which must be 49-51 V (only for Italy 66-68 Vdc).

Turn screw (A) to adjust the engine speed Fig. 2. Turning the screw clockwise increases the idling speed, screwing it anticlockwise decreases the maximum engine speed.





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How to put two machines in parallel:

from the front panels of the machines connect the two positives welding sockets(+) between themselves and the two negative welding sockets bethween themselves. To effect the connection ask for the accessory K2X150.

ATTENTION: use fit cables and tight at the connection point.

How to proceed:

- start the machine putting the two welding handles (T) in the wanted position (half of the total current);

- put in parallel with the right cables;

- proceed with welding.



M D **GB** Use as a generator 1.1-09/04 E

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WARNING

It is absolutely forbidden to connect the unit to the public mains and/or another electrical power source.

Areas for which access by non-authorized personnel is forbidden are:

- the control panel (at the front) - the endothermic motor discharge.

GENERATION IN C.C. (CONTINUOUS CURRENT WITH MICRO-INTERRUPTION)

Machines with three pin outlets for auxiliary supply have, at each outlet, isolated active and neutral sockets, and an earth socket. Only the earth socket is bonded to the frame of the machine.

For your safety, all auxiliary equipment, extension cords, appliance cords, plugs, plug sockets and appliances should be in good condition and correctly wired and connected. All earthing wires, ghere used, must be continuous. Extension corde with three wires should be used except for double insulated appliances.

The frame of the unit should not be connected to the general mass of earth by an earth spike or by any other means, but should be isolated from earth.

Note: in line with current practice, a floating auxiliary power system is used. The auxiliary power windings are not connected to the frame, hence a "residual current device" is not required.

- If the generator is used to feed more complex circuits, or used in special environments, for example: building sites, it is obligatory to interpose between the socket and the loads a small distribution panel complete with electrical safeties foreseen by regulatory norms in force in matters of electrical installation.



MOSA 1.1-09/04 (E) Trouble-	MAGIC WELD 40.2	
Problem	Possible cause	Solution
The motor does not start up,	1) Engine switch (28) at position	1) Position switch to ON
immediately	2) Lack of or insufficient oil in the motor	2) Refill or top off
	 Faulty motor stopping device (oil- alert) 	3) Replace
	 Lack of fuel in tank or fuel tap closed 	4) Refill the tank. Open the fuel tap
	5) Dirty or faulty spark plug	5) Clean or check and eventually replace
	6) Cold motor	 6) Hold down the CHOKE button, after start-up, for a longer period of time
	7) Other causes	 Consult the motor Operating Manual.
No current under no-load conditions in weld mode	1) Chopper welding bridge broken	1) Use a multimeter to test that there are 3 Kohms between pins 1-2; if
		NOT replace the bridge
	 Faulty circuit Faulty alternator 	 2) Replace 3) Disconnect the welding and auxiliary power cables. Use a voltmeter to check that there is 48 Vac at the outputs in weld and approximately 170 Vac in the 230 V version and 90 Vac in the 110 V version. Carry out the check when the engine idles (disconnect one of the two wires to the solenoid)
No current under no-load conditions in auxiliary power mode	1) Fuse open	 replace the fuse 10A retarded for version 230V 15A retarded for version 110V
	 Auxiliary power diode bridge broken 	 Use a multimeter to check the 2 single phase diode bridges on the auxiliary power
	3) Faulty circuit	3) Replace
	4) Faulty alternator	 4) Disconnect the welding and auxiliary power cables. Use a voltmeter to check that there is 48 Vac at the outputs in weld and approximately 170 Vac in the 230 V version and 90 Vac in the 110 V version. Carry out the check when the engine idles

Incorrect minimum voltage 1) Incorrect solenoid adjustment under no-load conditions

1) Adjust the solenoid as shown on page M34.

to the solenoid).

(disconnect one of the two wires

MOSA 1.1-09/04	nooting	MAGIC WELD 40.2.1
Problem	Possible cause	Solution
Incorrect maximum voltage under no-load conditions	 Incorrect maximum engine speed 	 Adjust the maximum engine speed as shown on page M34.
Engine always at idle speed	1) Faulty circuit	1) Replace
Engine always at maximum speed	 faulty circuit Faulty solenoid 	 Replace; Check that the resistance of the solenoid winding is approximately 10 ohm.
Insufficient power during welding or generation	1) Engine	 Dirty petrol filter, dirty air filter, dirty carburetor. See engine instruction booklet.
Irregular or inconsistent welding current	1) alternator windings not insulated from earth	 Disconnect all the outputs; 3 for welding which go to the chopped bridge and 4 for auxiliary power which go to the circuit board. Use a multimeter to check the insulation of the alternator;
	 welding chopper bridge not insulated from earth 	 2) disconnect the 3 welding cables the + and - for welding, the black wire and the connector which go to the circuit board, Use a multimeter to check that the bridge is insulated from the earth.
	3) power cables not insulated from earth4) faulty circuit	 3) check that the cables inside the aluminium casting, are properly insulated; 4) Replace

RESISTENCE OF WINDING AT 20°C

	Ω (ohm)	NOTE
Output in weld mode Between green / black cable Between green / red cable Between black / red cable	0,030 0,030 0,030	All cables of the same colour are connected in parallel
Auxiliary power outputs 230 Vdc Between the black cables: R / S Between the black cables: R / T Between the black cables: S / T	1,2 1,2 1,2	Cable Y is connected to the centro stella of the three phase circuit
Auxiliary power outputs 110Vdc Between the black cables: R / S Between the black cables: R / T Between the black cables: S / T	1,0 1,0 1,0	Cable Y is connected to cable T

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	HOT sur can hurt y

MAINTENANCE OF THE MACHINE

Maintenance refers to all operations regarding the control and replacement of mechanical and electrical parts subject to wear. In addition it refers to the control and topping up or replacement of fluids such as fuel, oil and the regular cleaning of the machine.

Repairs refers to the substitution of worn or damaged parts and repairs should be carried out by Authorized Service Centres.

Refer to the Engine Manufacturer's Manual for the maintenance instructions for the engine. Periodic maintenance should be performed according to the schedule shown in this manual.

On a regular basis check that there are no obstructions in the aspiration/exhaust ducts of the alternator, the engine or the housing which could restrict the flow of cooling air.

DRY AIR FILTER

Replace the air filter cartridge every 200 hours under normal conditions and every 100 hours in dusty environments.

PERMANENT MAGNET ALTERNATOR

No maintenance is necessary, as the alternator has no brushes or slip rings, and there are no devices for regulation of the output.

WARNING LABELS AND DECALS

Check warning labels and decals once a year and replaced if missing or unreadable.

CABLES AND CONNECTIONS

Periodically check the condition of the cables and tighten the connections.

IMPORTANT

 $/ \Lambda$

When carrying out maintenance operations be careful to avoid polluting the environment with the materials used during maintenance. Follow all local health and safety regulations.



MAGIC WELD
CUST-OFF
As cust off we intend all operation made, at utilizer's care, at the end of th the machine

In case the machine will not be used for more than 30 days, it should be stored in a suitable area where it is protected from the elements to prevent rusting, corrosion and other damage to the machine.

ENGINE

Run the engine until it stops from lack of fuel.

For long periods of storage, refer to the engine manufacturer's manual.

Clean the machine carefully.

Cover the machine with a plastic cover and store in a dry place.

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

IMPORTANT

In the storage or 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.

s to be e use of

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.

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, inflamable liquids such as fuel.

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

NOTE: MOSA is involved with custing off the machine only for the second hand ones, when not reparable.

This, of course, after authorization.



\bigcirc **GB** Technical data © MOSA

1.1-11/05 E

MAGIC WELD

Technical data	MAGIC WELD
D.C. WELDING	
Current range, continuous	30 - 150A
Open circuit voltage	50V (only for Italy 65V)
Duty cycle	150 A - 60%
Electrode diameter	2 - 3.25 mm
D.C. GENERATION	
Single-phase output (max)	2 kVA / 230 V / 8.7 A
Single-phase output (continuous)	1.6 kVA / 230 V / 6.9 A
Single-phase output (max) (optional)	1.5 kW / 110 V / 13.6 A
Single-phase output (continuous) (optional)	1.2 kW / 110 V / 10.9 A
ALTERNATOR	Self-excited, self-regulated, brushless
Type	permanent magnet, three-phase
Insulating class	H
ENGINE	
Mark	HONDA
Model	GX 200
Type	4-stroke
Displacement	196 cm ³
Cylinders	1
Output max	5 kW (6.8 HP)
Speed	4000 rpm
Fuel consumption	313 g/kWh
Cooling system	Air
Engine oil capacity	0.6 I
Starter	recoil
Fuel	Gasoline
GENERAL SPECIFICATIONS	
Tank capacity	3.6 l
Running time (at duty cycle 60%)	3.5 h
Protection	IP 23
Dimensions max. on base Lxlxh *	430x375x470
Weight (dry) *	34 Kg
Noise level	99 LWA (74 dB(A) - 7 m)

OUTPUT

Declared powers at the following ambient conditions: temperature 20*C, relative humidity 30% altitude 100 m above sea level.

In an approximative way one reduces: of 1% every 100 m altitude and of 2.5% for every 5°C above 25°C. For possible modifications or changes to be brought on the engines, with climate conditions different from those above mentioned, please call our Assistance Authorized Centers.

ACOUSTIC POWER LEVEL

The machine respects the noise limits, expressed in sound power, given in the a.m. directives.

These limits can be used to judge the sound level produced on site.

For example: the sound power level of 100 LWA.

The sound pressure (noise produced) at 7 meters distance is about 75dBA (the limit value less 25).

To calculate the sound level at other distances use this formula:

At 4 meters the noise level becomes: 75 dBA + 10 log $\frac{7^2}{4^2}$ = 80 dBA $dBA_x = dBA_y + 10 \log \frac{ry^2}{rx^2}$

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The information here below are to be intended only as indicative since the above norm is much larger. For further details please see the specific norms and/or the manufacturers of the product to be used in the welding process.

RUTILE ELECTRODES: E 6013

Easily removable fluid slag, suitable foe welding in all position. Rutile electrodes weld in d.c. with both polarities (electrode holder at + or -) and in a.c.. Suitable for soft steels R-38/45 kg/mm². Also for soft steels of lower quality.

BASIC ELECTRODES: E 7015

Basic electrodes wels onlu in d.c. with inverse polarity (+ on the electrode holder); there are also types for a.c. Suitable for impure carbon steels. Weld in all position.

HIGH YIELD BASIC ELECTRODES: E 7018

The iron contained in the coating increases the quality of metal added. Good mechanical properties. Weld in all position. Electrode holder at + (inverse polarity). Wild deposit of nice aspect, also vertical. Workable; high yield. Suitable for steels with high contens of sulphur (impurities).

CELLULOSIC ELECTRODES: E 6010

Cellulosic electrodes weld only in d.c. with polarity + electrode holder - ground clamp. Special for steels run on pipes with R max 55 kg/mm². Weld in all position. volatile slag.

ELECTRODES IDENTIFICATION ACCORDING TO A.W.S. STANDARDS



Number	Strer	Strenght	
Ī	K.s.l.	Kg/mm ²	
60	60.000	42	
70	70.000	49	
80	80.000	56	
90	90.000	63	
100	100.000	70	
110	110.000	77	
120	120.000	84	

Table 1

1	for all positions	
2	for plane and verticl	
3	for plane posotion only	

N°	Descrizione
10	Cellulose electrodes for d.c.
11	Cellulose electrodes for a.c.
12	Rutile electrode for d.c.
13	Rutile electrode for a.c.
14	High yield rutile electrodes
15	Basic electrodes for d.c.
16	Basic electrodes for c.a.
18	High yield basic electrodes for d.c. (inverse polarity)
20	Acid electrodes for flat or front position welding for d.c. (- pole) and for a.c.
24	High yield rutile electrodes for flat or front plane position welding for d.c. and a.c.
27	High yield acid electrodes for flat or front plane position welding for d.c. (- pole) and a.c
28	High yield basic electrodes for flat or front plane position welding for d.c. (inverse polarity)
30	Extra high yield acid electrodes, extra high

BU Extra high yield acid electrodes, extra high penetration if required, for flat position welding only for d.c. (- pole) and a.c.

Table 3





DIMENSIONI DIMENSIONS

SCHEMI ELETTRICI ELECTRICAL SYSTEM

RICAMBI SPARE PARTS



() Dimensioni () Abmessungen (B) Dimensions (E) Dimensiones 1.0-09/04 (E) Dimensions

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М 53





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Legenda schema elettrico

- A : Alternatore
- F : Fusibile
- : Presa 230V monofase Н
- 1 Presa 110V monofase
- R : Unità controllo saldatura
- Т : Regolatore corrente saldatura
- γ : Ponte diodi saldatura
- : Elettromagnete acceleratore F1
- S2 : Trasmettitore livello olio
- F3 : Pulsante stop
- G3 : Bobina accensione
- H3 : Candela accensione
- W6 : Sensore di hall

Electrical system legende

- A: Alternator
- F: Fuse
- H: 230V 1phase socket
- 1: 110V 1-phase socket
- R: Welding control PCB
- T: Welding current regulator
- Y: Welding diode bridge
- Acceleration solenoid F1:
- S2: Oil level transmitter
- F3: Stop push-button
- Ignition coil G3:
- H3: Spark plug
- W6: Hall sensor

MAGIC WELD

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Legende des schemas electriques

- A : Alternateur
- F : Fusible
- H : Prise 230V monophasé
- : Prise 110V monophasé 1
- R : Unite contrôle soudage
- Т : Régulateur courant de soudage
- Y : Pont diodes soudage
- F1 : Electro-aimant accélérateur
- S2 : Transmetteur niveau huile
- F3 : Bouton stop
- G3 : Bobine allumage
- H3 : Bougie allumage
- W6: Senseur de hall

Stromlaufplan-Referenzliste

- A Generator
- Sicherung F
- Steckdose 230V 1-phasig Η
- 1 Steckdose 110V 1-phasig
- Steuerplatine Schweißstrom R
- Т Schweißstromregler
- Y Diodenbrücke Schweißstrom
- F1 Elektromagnet Motordrehzahl
- **S**2 Ölstandssensor
- **Taste Stopp** F3
- G3 Zündspule
- H3 Zündkerze
- W6 Hall-Sensor

Leyenda esquema eléctrico

- A :Alternador
 - :Fusible

F

- :Toma 230V monofásica Н
- :Toma 110V monofásica 1
- R :Unidad control soldadura
- :Regulador corriente soldadura Т
 - Y : Puente diodos soldadura
 - F1 :Electromagnetismo acelerador
- S2 :Captador nivel aceite
- F3 : Pulsador stop
- G3 :Bobina encendido
- H3 : Bujía encendido
- W6 :Sensor de entrada





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MD5A (1) Introduzione tavole ricambi (3) Spare parts list	 D Ersatzteile E Tablas de recambios 	R 1
©MOSA 1.0-01/04 (F) Pieces de rechange		,

La MOSA è in grado di soddisfare ogni richiesta di pezzi di ricambio.

Se si desidera mantenere in efficienza la macchina, sempre nel caso di riparazione che comportino sostituzioni di pezzi MOSA, si deve pretendere che vengano usati solo parti di ricambio originali.

MOSA guarantees that any request for spare parts will be satisfied.

To keep the machine in full working order, when replacement of MOSA spare parts is required, always ask for genuine parts only. MOSA est en mesure de satisfaire toute demande de pièces de rechange.

Si l'ont veut garder l'appareil en bonne condition de fonctionnement, dans le cas de réparations qui comportent le replacement de pièces, on doit exiger que soient employées des pièces d'origine MOSA.

MOSA kann jedes Verlangen von Ersatzteilen befriedigen.

Wenn man die Maschine arbeitsfachig halten will, im Falle von Reparaturen, die den Ersatz von MOSA-Teilen benoetigen, muss man immer originale MOSA Ersatzteile fordern.

MOSA está capacitada para satisfacer cualquier pedido de piezas de recambio.

Si se desea mantener la máquina en un funcionamiento eficaz, se debe usar siempre recambios originales, cuando es preciso sustituir piezas MOSA.

Per ordinare le parti di ricambio indicare - When ordering the spare parts, it is recommended to indicate - Pour commander les pièces de rechange, indiquer - Zur Bestellung der Teile muss man - Para hacer un pedido de piezas de recambio indicar:

- 1) * n. di matricola / serial number / matricule de la machine / Seriennummer / n. de matrícula
- 2) * tipo motosaldatrice e/o gruppo elettrogeno / model of welder and/or generating set / type de motosoudeuse et/ou groupe électrogène / Typ des Schweissgeraets und/oder Stromerzeugers / tipo motosoldadora y/o grupo electrógeno
- 3) 🔷 n. tavola / n. table / n. table / taflenummer / n. tabla
- 4) An posizione / n. position / n. position / positionnummer, / n. posición
- quantitativo / quantity / quantité / Menge / cantidad

re II dati richiesti si trovano sulla targa dati situata sulla struttura della macchina ben visibile e di facile consultazione.

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

R Les données demandées se trouvent sur la plaque des données, située sur la structure de la machine, bien visible et facile à consulter.

INF Die verlangten Daten sind auf der Datenplatte, die sichtbar und leicht zu verstehen an der Maschinestruktur gehoert.

rer Los datos solicitados se hallan en la placa de datos situada en la estructura de la máquina en un lugar visible y de fácil consulta. *



LEGENDA NOTE - ABBREVIATIONS AND SYMBOLS - LEGENDE DES NOTES - NOTENERKLAERUNG -LEYENDA NOTAS:

(EV) Specificare all'ordine il tipo di motorizzazione e le tensioni ausiliarie - When ordering, specify the engine type and

the auxiliary voltage - Type de moteur et/ou tensions auxiliaires doivent être spécifiés à la commande -Motortyp und Hilfspannungen beim Auftrag angeben - Especificar en el pedido el tipo de motor y las tensiones auxiliares

- (ER) Solo motore con avviamento a strappo Engine with recoil starter only Moteur avec démarrage à cordelette seulement - Nur bei Motor mit Reversierstart - Sólo motor con arrangue por tirón
- (ES) Solo motore con avviamento elettrico Engine with electric starter only Moteur avec démarrage électrique seulement - Nur bei Motor mit Elektrostart - Sólo motor con arranque eléctrico
- (VE) Solo versione E.A.S. E.A.S version only Version E.A.S. seulement Nur bei E.A.S Ausfuehrung Sólo versión E.A.S.
- (QM) Specificare all'ordine la quantità in m When ordering, specify the length in meters A la commande spécifier la longueur en mètres - Beim Auftrag die Laenge in Metern angeben - Especificar en el pedido la cantidad en m
- (VS) Solo versioni speciali Special version only Versions spéciales seulement Nur bei Sonderausfuehrungen -Sólo versiones especiales
- (SR) Solo a richiesta By request only Sur demande seulement Nur auf Wunsch Sólo bajo pedido



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		🗖 🕕 Ricam	bi 🤇	D Ersatzteile		AG
		💄 🛞 Spare	parts (🗈 Tabla de recambios	SOLGEN 170 H	1.1
© MOSA	1.2-11	105 E Piéces	s de rechange 🛛			
Pos	Rev	Cod	Descr		Note	
1	1100	222406020	VENTOLA CEN	TRIFUGA	1010	
2		222403047	ASSIEME MOZ	ZO/BOTOBE		
3		222413025	STATORE AVV	OLTO 230 VAC	Versione 230V	
3a	А	222453025	STATORE AVV	OLTO 110 VAC	Fra 222403025 Del	107/05
					del 21/11/05 - Versio	ne 110V
Зb	А	222413025	STATORE AVV	OLTO 230 VAC	Versione NL	
4		222418263	PIASTRINA FE	RMA CAVI		
5		1270040	PONTE DIODI		Versione Italia	
5a		1270070	PONTE DIODI		Versione 230V	
6		222422200	MOTORE HON	DA GX200T - EPA		
7		102011270	TAPPO MANIG	LIA		
8		222401226	MANIGLIA DI S	OLLEVAMENTO		
9		222409800	SCHEDA SALD	ATURA (MAGIC WELD)		
10		222405400	PONTE CHOPP	PER		
11		222405107	SENSORE DI H	IALL 250A		
12		222408065	GRIGLIA USCI	ΓΑ ARIA		
13		222403040	CARTER ATT.	MOTORE/ALTERN. (LAV.)		
14		222409050	ELETTROMAG	NETE ECONOMIZZATORE		
15		222402244	MORSETTO PE	R FUNE COMANDO		
16		222409101	SUPPORTO EL		() / H - 1' -)	
17		222434126			(Versione Italia)	
10		222401035				
19		222402038				
20		222411050	BASE SUPPOR		(Versione Italia)	
22		222404100	SOLIAD SUPPL	EVA COMAN GAS MOT (CO		
23		222408460	FILO BIGIDO C			
24		222402230	ASSIEMELEVA	COMANDO GAS MOT		
Pos.	Rev.	Cod.	Descr.		Note	
1		222406020	FAN			
2		222403047	Manca la d	escrizione		
3		222413025	STATOR 230V		230V Version	
3a	Α	222453025	STATOR 110V		Era 222403025 Del.	107/05
					del 21/11/05 - 110V \	/ersion
Зb	Α	222413025	STATOR 230V		NL Version	
4		222418263	Manca la d	escrizione		
5		1270040	DIODE BRIDGE	35A800V	Italy version	
5a		1270070	DIODE BRIDGE		230V version	
6		222422200	HONDA ENGIN	E GX200T		
7		102011270	STOPPER, HAN	NDLE		
8		222401226	Manca la d	escrizione		
9		222409800	Manca la d	escrizione		
10		222405400	WELDING PCB			
11		222405107	HALL SENSOR			
12		222408065	Manca la d	escrizione		
13		222403040	Manca la d	escrizione		
14		222409050	Manca la d	escrizione		
15		222402244	Manca la d	escrizione		
10		222409101	Manca la d	escrizione	(Italy yersion)	
10		222404120	Manca la d	escrizione	(italy version)	
10		222401033	Manca la d			
19		222402030	RASE	COUNTRY		
21		222434100	REACTOR		(Italy version)	1-02
22		222402100	Manca la dese	izione	(nary version)	2707
23		222408460	Manca la desci	izione		/05
24		222402230	Manca la desci	izione		2/04
						÷



	Ricamb	i D Ersatzteile		AG
	A GB Spare p	parts 🔅 Tabla de recambios	MAGIC WELD	2.1
© MOSA	1.2-11/05 E Pieces	de rechange		
Pos.	Rev. Cod.	Descr.	Note	
1	1291180	FUSIBILE	Versione 230V	
1a	1291090	FUSIBILE	Versione 110V	
2	103011320	PORTA FUSIBILE		
3	307017240	PRESA 220V 16A		
4	270009701	POTENZ. LINEARE A FILO 5Kohm	(*)	
5	102301310	PRESA DI SALDATURA (+)		
6	102044400	PRESA DI SALDATURA (-)		
7	222427020	FRONTALE		
8	1018090	ANELLO OR	(*)	
9	107799349	BUSSOLA MANOP.POT.REG.UN.SALD.	(*)	
10	207409751	MANOPOLA REGOLAZ.CORR.SALDAT.	(*)	
11	107011870	ТАРРО	(*)	
12	6060070	GRANO FILETTATO E.I.M4X8	(*)	
13	6060050	GRANO M 4X4 UNI 5923 R45H	(*)	
14	222440543	KIT MANOPOLA ARCO SALD. COMPL,	(* 4+8÷13)	
15	307047250	PRESA 110V 16A	Versione 110V	
16	259107241	PRESA SCHUKO 16A 230V - 2P+T	Versione Schuko	
Pos.	Rev. Cod.	Descr.	Note	
1	1291180	FUSE	230V version	
1a	1291090	FUSE	110V version	
2	103011320	HOLDER, FUSE		
3	307017240	EEC SOCKET 16A, 220V 2P+T		
4	270009701	Manca la descrizione	(*)	
5	102301310	WELDING SOCKET (+)		
6	102044400	WELDING SOCKET (-)		
7	222427020	FRONT PANEL		
8	1018090	O RING	(*)	
9	107799349	Manca la descrizione	(*)	
10	207409751	KNOB WELDING CURRENT REGULAT.	(*)	
11	107011870	CAP	(*)	
12	6060070	Manca la descrizione	(*)	
13	6060050	Manca la descrizione	(*)	
14	222440543	KIT FOR ARC FORCE KNOB	(*4+8÷13)	
15	307047250	SOCKET 110V 16A	110V version	
16	259107241	SOCKET SCHUKO 16A 230V 2P+T	Schuko version	

12/04/02 27070-1

© MOSA 1.0-	03/04 (1) MODULO P (B) REQUEST F	ER L'ORDINAZION OR ORDER SPAR	e dei ric E parts	AMBI					R 1.1
Gentile sia con le nu Dear C new spare pai	cliente, potrà inviarci ove tavole ricambi ustomer, You can ser rts tables as well as v	la richiesta per l'o che con le vecchi nd us the request t vith the old ones,	ordinazion e, a mezz for order o by FAX or	e di ric 20 FA) f MOS 1 mail.	cambi oi (o per SA origir	riginali MOSA posta. nal spare par	A comp ts, fillir	bilando ques ng in this forn	to modulo n, with the
Richiesta	da/Request from:					data	a/date	;	<u>,</u>
firma/ <i>sign</i> Inviateci i s <i>machine be</i> <u>RICAMBI M</u> modello tip	ature: eguenti ricambi de low: 1OSA / MOSA SPAR po / model type:	ella sotto elenca <u>E PARTS:</u>	ta macch	ina /P	lease s	end use us f	ollowi	ing sapre pa	rts for the
	nr. ma	tricola / serial n	r:						
	NUOVE TAV	OLE/NEW TA	BLES			VECCH		AVOLE	
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madalla ma	tors / engine SP	ARE PARTS:							1 1 1
matricola m	nore / engine mod	en:							1
		ur 111							. 1

	codice e/o posizione code and/or position	descrizione e/o tavola description and/or table	q.tà q.ty
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RICAMBI ALTERNATORE SINCRONO / SYNCHRONOUS ALTERNATOR SPARE PARTS:

modello alternatore / alternator model:.....

matricola alternatore / alternator serial nr.:....

codice e/o posizione code and/or position	descrizione e/o tavola description and/or table	q.tà q.ty
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25/03/04 R1-11-GB

