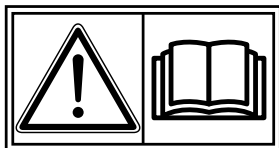


INSTRUCTIONS FOR USE
WELDERS



MODELS

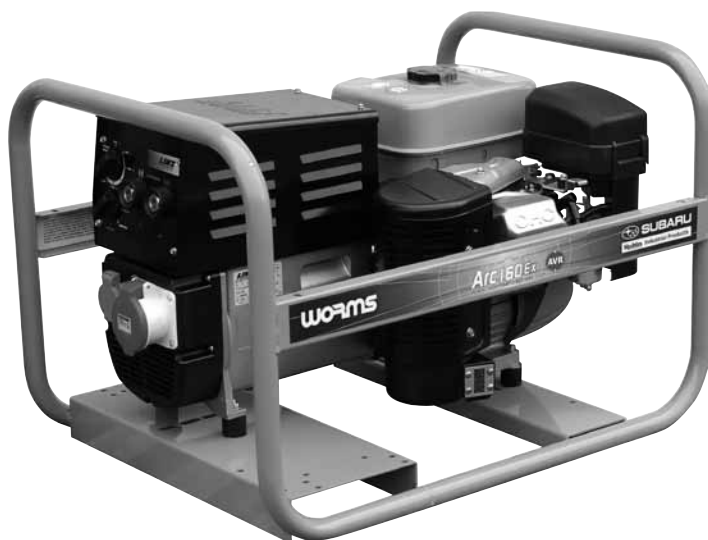
MIXTE 4500 / 3,2 EX

MIXTE 5100 / 4 EX

MIXTE 7000 / 4 EX

ARC 160 EX

ARC 220 EX



Thank you for purchasing a Robin generator.

This manual covers operation and maintenance of the Robin generators. All information in this publication is based on the latest production information available at the time of approval for printing.

Pay special attention to statements preceded by the following words:



Indicates an impending dangerous situation. If this one is not prevented, it can cause death or severe injuries for the user..

WARNING

Indicates a strong possibility of severe personal injury, loss of life and equipment damage if instructions are not followed.

CAUTION

Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE

Gives helpful information.

If a problem should arise, or if you have any questions about the generator, consult an authorized dealer or service shop.



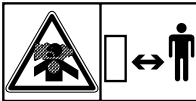




WARNING




















SUMMARY

1. SYMBOLS AND MEANINGS	PAGE 4
2. SAFETY PRECAUTIONS	PAGE 6
3. SPECIFICATIONS	PAGE 8
4. PRE-OPERATION CHECK	PAGE 9
5. OPERATING PROCEDURES	PAGE 12
6. STOPPING THE GENERATOR	PAGE 16
7. OIL SENSOR	PAGE 16
8. WATTAGE INFORMATION	PAGE 17
9. MAINTENANCE SCHEDULE	PAGE 18
10. “HOW TO” MAINTENANCE	PAGE 19
11. PREPARATION FOR STORAGE	PAGE 22
12. TROUBLESHOOTING	PAGE 23


1. SYMBOLS AND MEANINGS

In accordance with the ISO standard, the specified symbols as shown in the following table are used for the products and this instruction manual.


	Read the operator's instruction manual.
	Stay clear of the hot surface.
	Exhaust gas is poisonous. Do not operate in an unventilated room.
	Stop the engine before refueling.
	Fire, naked flame and smoking prohibited.
	Caution, risk of electric shock.
	Do not connect the generator to the commercial power lines.

	ON (Switch Engine)	P_r	Rated power (kW)
	OFF (Switch Engine)	f_r	Rated frequency (Hz)
	Alternating current	H_{max}	Maximum site altitude above sea-level (m)
	Direct current	COP	Continuous power (kW)
	Plus : positive polarity	U_r	Rated voltage (V)
	Minus : negative polarity	T_{max}	Maximum ambient temperature (°C)
	STOP-position of a bistable push control	$\cos \varphi$	Rated power factor
	ON-position of a bistable push control	I_r	Rated current (A)
	Protective earth (ground)	m	Mass (kg)
	Fuse		
	Engine oil		
	Add oil		
	Battery charging condition		
	Choke (cold starting aid)		
	Engine start (Electric start)		
	Engine stop (Electric start)		
	Fuel		
	Fast		
	Slow		


2. SAFETY PRECAUTIONS


-  Do not operate the generator near gasoline or gaseous fuel because of the potential danger of explosion or fire.

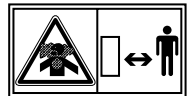



-  Do not fill the fuel tank with fuel while the engine is running. Do not smoke or use a naked flame near the fuel tank. Be careful not to spill fuel during refueling. If fuel is spilled, wipe it off and let dry before starting the engine.





-  Do not place inflammable near the generator. Be careful not to place fuel, matches, gunpowder, oily cloths, straw, trash, or any other in flammables near the generator.

-  Do not operate the generator inside a room, cave, tunnel, or other insufficiently ventilated area. Always operate it in a well-ventilated area, otherwise the engine may become overheated, and the poisonous carbon monoxide gas contained in the exhaust gases will endanger human lives. Keep the generator at least 1 meter (3 feet) away from any structure or building during use. If the generator must be used indoors, the area must be well-ventilated and extreme caution must be taken regarding the discharge of exhaust gases. Failure to follow the correct procedures can be fatal.





-  Do not enclose the generator nor cover it with a box. The generator has a built-in forced air cooling system, and may become overheated if it is enclosed. If generator has been covered to protect it from the weather during non use, be sure to remove it and keep it well away from the area during generator use.

-  Operate the generator on a level surface. It is not necessary to prepare a special foundation for the generator. However, the generator will vibrate on an irregular surface, so choose a level place without surface irregularities. If the generator is tilted or moved during operation, fuel may spill and/ or the generator may tip over, causing a hazardous situation. Proper lubrication cannot be expected if the generator is operated on a steep incline or slope. In such a case, piston seizure may occur even if the oil level is above the minimum level.


-  Pay attention to the wiring or extension cords from the generator to the connected device. If the wire is under the generator or in contact with a vibrating part, it may break and possibly cause a fire, generator burnout, or electric shock hazard. Replace damaged or worn cords immediately.




-  Do not operate in rain, in wet or damp conditions, or with wet hands. The operator may suffer severe electric shock if the generator is wet due to rain or snow.


-  If the generator is wet, wipe and dry it before starting. Do not pour water directly over the generator, never wash it with water.




 Be extremely careful that all necessary electrical grounding procedures are followed during each and every use. Failure to do so can be fatal.

 Do not contact the generator to a commercial power line. Connection to a commercial power line may short circuit the generator and ruin it or cause electric shock hazard. Use the transfer switch for connecting to domestic circuit. In the special case where the generator will be connected as stand by to the commercial network, the installation must be carried out by a qualified electrician taking into account the technical specifications of the generator and the commercial network.





 No smoking while handling the battery. The battery emits flammable hydrogen gas, which can explode if exposed to electric arcing or a naked flame. Keep the area well-ventilated and keep naked flames/sparks away when handling the battery.




 Engine becomes extremely hot during and for some time after operation. Keep combustible materials well away from generator area. Be very careful not to touch any parts of the hot engine especially the muffler area or serious burns may result.




 Keep children and all bystanders at a safe distance from work areas.

 It is absolutely essential that you know the safe and proper use of the power tool or appliance that you intend to use. All operators must read, understand and follow the tool/appliance owners manual. Tool and appliance applications and limitations must be understood. Follow all directions given on labels and warnings. Keep all instruction manuals and literature in a safe place for future reference.



 Use only «Homologated» extension cords according to CEI 245-4. When a tool or appliance is used outdoors, use only extension cords marked «For Outdoor Use». Extension cords, when not in use should be stored in a dry and well ventilated area.

 Always switch off generator's circuit breaker and disconnect tools or appliances when not in use, before servicing, adjusting, or installing accessories and attachments.

3. SPECIFICATIONS

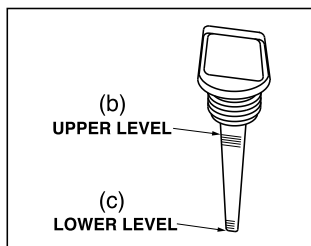
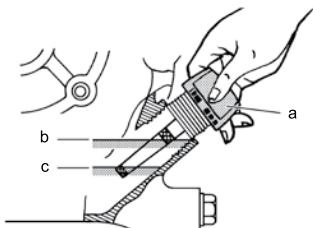
		MIXTE 4500 / 3,2 EX	MIXTE 5100 / 4 EX	MIXTE 7000 / 4,0 EX	ARC 160 EX	ARC 220 EX
COP Power 230V (cosφ=1)		4,0 kW	5,0 kW	6,0 kW	2,0 kW	3,2 kW
COP Power 400 V (cosφ=0,8)		-	-	-	4,5 kW	7,2 kW
Rated Power Factor		1	1	1	0,9	0,9
Rated Current		17,4 A	21,7 A	26,1 A	7,3 A	11,5 A
Maximum Ambient Temperature		40 ° C				
Site Maximum Altitude		1000 m				
ALTERNATOR	Nominal voltage	230 V Single Phase			400 V Three Phases	
	Alternator type	Brushless, 2 Poles			Brush, 2 Poles	
	Voltage regulator	Condenser			Brushless and Electronic (AVR) / Compound Regulation	
	Frequency	50 Hz				
	Single socket 230V IP44 - 10/16A	2	2	2	1	1
	Three socket 400V - 3P+T+N 16A	-	-	-	1	1
	Protection	Sockets Protected With a Circuit Breaker				
ENGINE	Engine Model	EX 27	EX 35	EX 40	EX 27	EX 40
	Engine Type	4 Stroke Gasoline OHC				
	Cooling System	Air Cooled				
	Maximum Output	9 HP 4000 rpm	12 HP 3600 rpm	14 HP 3600 rpm	9 HP 4000 rpm	14 HP 3600 rpm
	Piston Displacement	265 cm ³	404 cm ³	404 cm ³	265 cm ³	404 cm ³
	Fuel	Unleaded Gasoline 95				
	Fuel Tank Capacity	6,1 Liters	6,1 Liters	7 Liters	6,1 Liters	7 Liters
	Autonomy at 3/4 Load	3 h	3 h	2 h 10	3 h	2 h 10
	Starting system	Recoil Starter Including Rope System				
	Electronic Oil Sensor	Serial				
Frame	Full Steel Frame					
Dimensions LxIxH (mm)	765x570x520	765x570x520	876x570x602	765x570x520	876x570x602	
Dry Weight	73,5 kg	73,5 kg	90,5 kg	73,5 kg	90,5 kg	
Gross Weight	75 kg	75 kg	92 kg	75 kg	92 kg	

4. PRE-OPERATION CHECK

4.1. CHECK ENGINE OIL

Before checking or refilling oil, be sure generator is located on stable and level surface with engine stopped.

- Remove oil filler cap (a) and check the engine oil level.



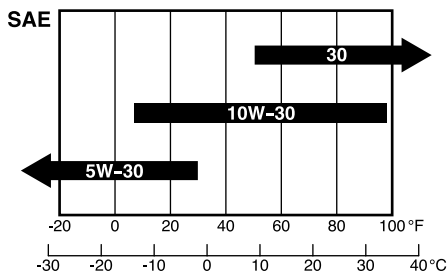
- If oil level is below the lower level line (c), refill with suitable oil (see table) to upper level line (b). Do not screw in the oil filler cap when checking oil level.

Oil Capacity	Upper Level
MIXTE 4500 / 3,2 EX	1,0 L
MIXTE 5100 / 4 EX	1,2 L
MIXTE 7000 / 4 EX	1,2 L
ARC 160 EX	1,0 L
ARC 220 EX	1,2 L

- Change oil if contaminated (See “How-To” Maintenance).

RECOMMENDED ENGINE OIL:

Use class SE (API classification) oil or a higher grade oil according to the table below. **SAE 10W-30** or **10W-40** is recommended for general, all temperature use. If single viscosity oil is used, select the appropriate viscosity for the average temperature in your area.



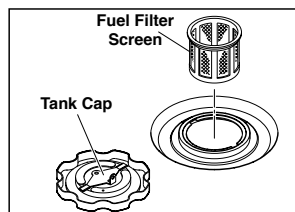
4.2. CHECK ENGINE FUEL

WARNING

Do not remove the fuel tank cap while the engine is running. Do not refuel while smoking or near naked flame or other such potential fire hazards. Otherwise fire accident may occur.

Check fuel level at fuel level gauge (standard with large fuel tanks). If fuel level is low, refill with unleaded automotive gasoline. Be sure to use the fuel filter screen on the fuel filter neck.

Fuel tank capacity : see page 8.



WARNING

- Make sure you review each warning in order to prevent fire hazard.
- Do not refill tank while engine is running or hot.
- Close fuel cock before refueling with fuel.
- Be careful not to admit dust, dirt, water or other foreign objects into fuel.
- Wipe off spilt fuel thoroughly before starting engine.
- Keep naked flames away.

4.3. CHECKING COMPONENT PARTS

Check following items before starting engine:

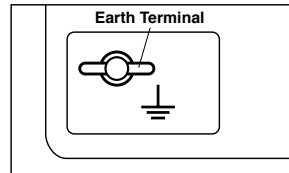
- Fuel leakage from fuel hose, etc;
- Bolts and nuts for looseness;
- Components for damage or breakage;
- Generator not resting on or against any adjacent wiring;
- Control generator environment.

WARNING

- Make sure you review each warning in order to prevent fire hazard.
- Keep area clear of in flammables or other hazardous materials.
- Keep generator at least 3 feet (1 meter) away from buildings or other structures.
- Only operate generator in a dry, well ventilated area.
- Keep exhaust pipe clear of foreign objects.
- Keep generator away from naked flame. No smoking!
- Keep generator on a stable and level surface.
- Do not block generator air vents with paper or other material.

4.4. GROUNDING THE GENERATOR

- Before using the generator, the grounding lug on the panel must be connected to the earth.
- To ground the generator to the earth, connect the grounding lug of the generator to the grounding spike driven into the earth or to the conductor which has been already grounded to the earth.
- If such grounding conductor or grounding electrode is unavailable, connect the grounding lug of the generator to the grounding terminal of the using electric tool or appliance.



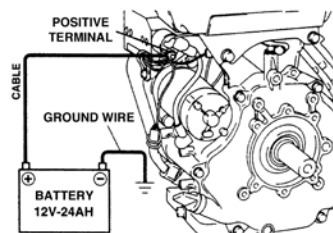
4.5. ELECTRIC STARTER (OPTIONAL)

The battery is delivered dry but loaded. You have to fill it with acid before using.

1. Just before filling the battery, take out the plastic cap and connect the hose to the mechanical out connection.
2. Remove the tank cap and fill fully with electrolyte until the maximum level written on the battery.
3. Let the battery rest for a while (roughly 1/2 HRS) before running by a load. If the electrolyte level dropped, fill again until the maximum level.
4. If necessary, reload the battery. The loading can be made with unscrewing the filling caps.
5. Remove the plugs and clean the electrolyte that fell down on the battery. The battery is ready for use.

ABOUT THE BATTERY CABLES

1. Fix the positive (+) wire connected to the electrical starter to the positive terminal of the battery
2. Fix the negative (-) wire connected to the housing of the engine to the negative terminal of the battery.



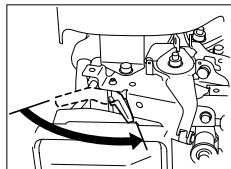
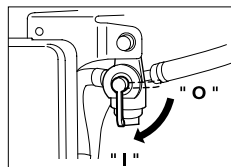
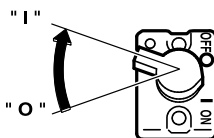
5. OPERATING PROCEDURES

WARNING

Check the oil level before each operations as outlined on page 9. Never change the accelerator position which is set at the factory.

5.1. STARTING THE ENGINE

- Open the fuel cock.
- Pull the choke knob to close if the engine is cold.
- If electrical starter, put the key switch in start position (START).
- After the engine started, return the choke knob gradually to "OPEN" position.

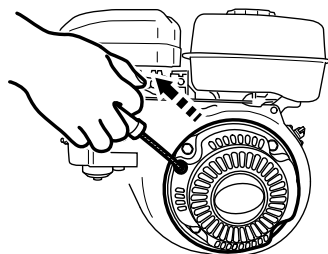


[RECOIL STARTER MODEL]

- Pull the starter handle slowly until resistance is felt. This is the «compression» point.
- Return the handle to its original position and then pull swiftly.

If the engine fails to start after several attempts, repeat above procedures with choke knob returned to open.

- Do not fully pull out the rope.
- After starting, allow the starter handle to return to its original position while still holding the handle.

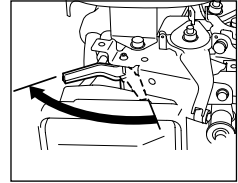
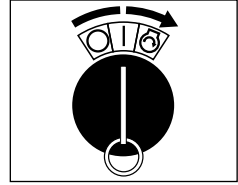


After the engine started, return the choke knob gradually to "OPEN" position.

Warm up the engine without a load for a few minutes.

[ELECTRICAL STARTER MODEL]

1. Insert the key inside the switch key and turn it to the “I” position. Then turn it right (START) in order to start the engine.
2. When the engine started, turn the choke knob slowly to make the engine run and keep it to the full normal position. Do not open it quickly when the engine is cold or the outside temperature is cold, because the engine might stop. Let the engine warm for few minutes without load.



WARNING

- Do not let the electrical running for more than 5 seconds, even if the engine is not working;
- If the engine doesn't start, wait for roughly 10 seconds before starting again;
- Never turn the switch key to the Start position when the engine is running.

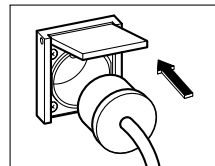
5.2. USING ELECTRIC POWER AND WELDING

AC APPLICATION

This generator is thoroughly tested and adjusted in the factory. If the generator does not produce the specified voltage, consult your nearest Worms dealer or service shop.

Turn off the switch(es) of the electrical appliance(s) before connecting to the generator.

Insert the plug(s) of the electrical appliance(s) into the receptacle.



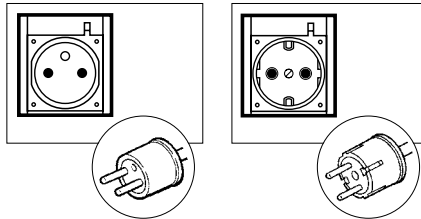
⚠ WARNING

Be sure to ground the generator if the connected electrical device is grounded.
Failure to ground unit could lead to electrical shock.

- Check the amperage of the receptacles, and be sure not to take a current exceeding the specified amperage.
- Be sure that the total wattage of all appliances does not exceed the rated output of the generator.

⚠ WARNING

Do not put foreign objects into the plug receptacle.

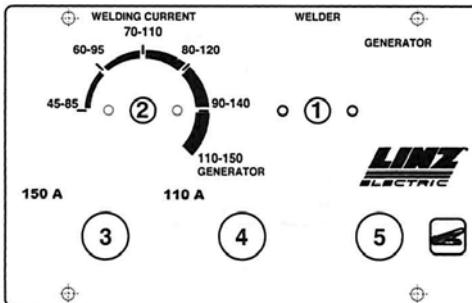


NOTE

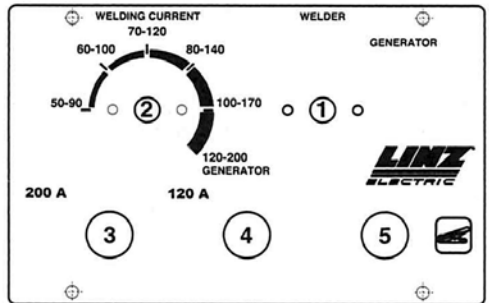
When the circuit breaker or no-fuse breaker turns off during operation, the generator is overloaded or the appliance is defective. Stop the generator immediately, check the appliance and/or generator for overloading or detect and have repaired as necessary by Robin dealer or service shop.

5.3. FRONT WELDING PANEL "MIXTES EX "

EW10 150AC



EW10 200AC



1. Selector of Alternator/Welder function.
2. Selector of current range.

3. Quick plug of maximum welding current.
4. Quick plug of intermediate welding current.
5. Quick plug of common welding current.

[WORKING AS GENERATOR]

In this function, the selector (1) must be on position « GENERATOR » and current selector (2) must indicate the maximum value. This way it is possible to use the single phase sockets mounted on the panel.

[WORKING AS AC CURRENT WELDER]

In this function, the selector (1) is on position « WELDER ». For electrodes having diameters equal or lower than 3,2 mm, the welding cables must be connected to plugs (4) and (5). With current range selector (2), it is possible to set the most suitable value according to the used electrode. (see the specifications of current for each generator).

5.4. FRONT WELDING PANEL "ARC EX "

1. "Function / Range of current" selector, graded in Amperes.
2. "Precise current" selector, graded in Amperes.
3. Quick plug of (+) welding.
4. Quick plug of (-) welding.

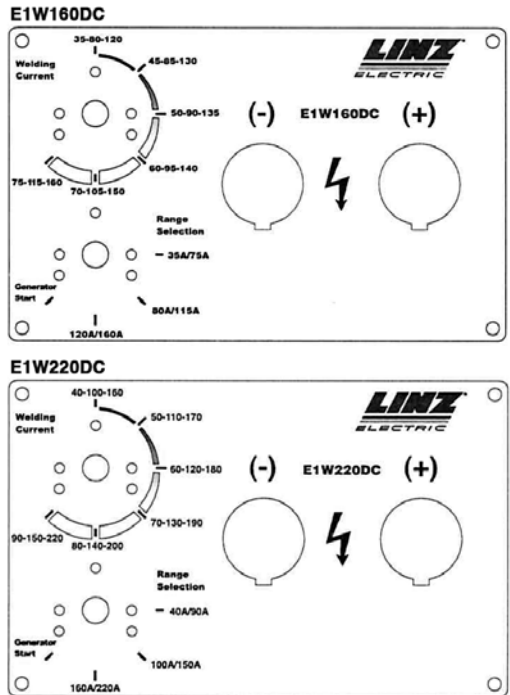
STARTING OF THE SET (DRIVE MOTOR AND ALTERNATOR/WELDER)

NOTE

During every start, selector (1) must be on position « GENERATOR START » to guarantee the alternator self-energizing.

CAUTION

Before starting the engine, the selector of range must be on position "GENERATOR START". If this procedure is not respected, the generator won't deliver any current.



[WORKING AS ALTERNATOR]

In this function, selector (1) must be on position "GENERATOR-START" to allow to use of the sockets mounted on the rear panel. The output voltage of the alternator is electronically regulated to grant very good performances either with three phase or single phase connection.

[WORKING AS DIRECT CURRENT WELDER]

In this function, the selector (1) must indicate the current range indicated on the packing of electrodes that will be welded. Welding cables (3) et (4) must be connected to the correct polarity also depending from the instructions on the electrode packing. At last, using main welding current selector (2) it is possible to set the most suitable current to weld the used electrode.

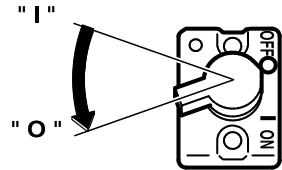
IMPORTANT

Every time the machine is used as welder it is necessary to disconnect the load from the sockets of the alternator to avoid any damage that can be caused by voltage fluctuations while the machine is welding.

The welder can supply the maximum current in output during a limited time after a necessary cooling time (see the information on the plate). If during the work, with some high current the thermal breaker is "on", you have to wait few minutes before resetting it.

6. STOPPING THE GENERATOR

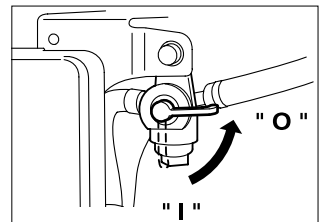
1. Turn off the power switch of the electric equipment and unplug the cord from the receptacle of the generator.
2. Allow the engine about 3 minutes to cool down at no-load before stopping.



3. Turn the engine switch to the position "O" (OFF).



4. Close the fuel cock.



7. OIL SENSOR

- The oil sensor detects the fall in oil level in the crankcase and automatically stops the engine when the oil level falls below a predetermined level.
- When engine has stopped automatically, switch off generator's no-fuse breaker, and check the oil level. Refill engine oil to the upper level as instructed on page 8 and restart the engine.
- If the engine does not start by usual, consult your nearest Robin dealer or service shop.

NOTE

If the engine doesn't start by usual, consult your nearest Robin dealer or service shop.

WARNING

Do not remove OIL SENSOR PROBE when refilling with oil. Remove oil filler cap on the opposite side of carburetor.

8. WATTAGE INFORMATION

Some appliances need a “surge” of energy when starting. This means that the amount of electrical power needed to start the appliance may exceed the amount needed to maintain its use. Electrical appliances and tools normally come with a label indicating voltage, cycles/Hz, amperage (amps) and electrical power needed to run the appliance or tool. Check with your nearest dealer or service center with questions regarding power surge of certain appliances or power tools.

- Electrical loads such as incandescent lamps and hot plates require the same wattage to start as is needed to maintain use.
- Loads such as fluorescent lamps require 1.2 to 2 times the indicated wattage during start-up.
- Loads for mercury lamps require 2 to 3 times the indicated wattage during start-up.
- Electrical motors require a large starting current. Power requirements depend on the type of motor and its use. Once enough “surge” is attained to start the motor, the appliance will require only 30% to 50% of the wattage to continue running.
- Most electrical tools require 1.2 to 3 times their wattage for running under load during use. For example, a 5,000 watt generator can power a 1800 to 4000 watt electrical tool.
- Loads such as submersible pumps and air compressors require a very large force to start. They need 3 to 5 times the normal running wattage in order to start. For example, a 5,000 watt generator would only be able to drive a 1,000 to 1,700 watt pump.

NOTE

The following wattage chart is general guide only. Refer to your specific appliance for correct wattage. To determine the total wattage required to run a particular electrical appliance or tool, multiply the voltage figure of the appliance/tool by the amperage (amps) figure of the same appliance / tool. The voltage and amperage (amps) information can be found on a name plate which is normally attached to electrical appliances and tools.

	MIXTE 4500 / 3,2 EX	MIXTE 5100 / 4,0 EX	MIXTE 7000 / 4,0 EX	ARC 160 EX	ARC 220 EX
Bulb / Halogen / Heating	4000 W	5000 W	6000 W	1100 W / phase	1500 W / phase
Neons - Low consumption Bulb	2500 W	2500 W	3000 W	900 W / phase	1200 W / phase
Hand Tools without variator	3000 W	4200 W	5000 W	1500 W / phase	2000 W / phase
Compressor	800 W	1000 W	1200 W	1900 VA	2400 VA
Electric Moteur Without Load	1,0 HP	1,7 HP	2,0 HP	2,0 HP	2,6 HP

VOLTAGE DROP IN ELECTRIC EXTENSION CORDS

When a long electric extension cord is used to connect an appliance or tool to the generator, a certain amount of voltage drop or loss occurs in the extension cord which reduces the effective voltage available for the appliance or tool.

The chart below has been prepared to illustrate the approximate voltage loss when an extension cord of 300 feet (approx. 100 meters) is used to connect an appliance or tool to the generator.

Nominal Cross	No. A.W.G.	Allowable Current	Nb./ Ø	Resistance	(A)							Voltage drop	
					mm ²	No.	A	No./mm	/100m	1 A	3 A		5 A
0,75	18	7	30/0.18	2,477	2,5V	8V	12V	-	-	-	-	-	-
1,27	16	12	30/0.18	1,486	1,5V	5V	7,5V	12V	15V	18V	-	-	-
2,0	14	17	37/0.26	0,952	1V	3V	5V	8V	10V	12V	15V	-	-
3,5	12 à 10	23	45/0.32	0,517	-	1,5V	2,5V	4V	5V	6,5V	7,5V	-	-
3,5	10 à 8	35	70/0.32	0,332	-	1V	2V	2,5V	3,5V	4V	5V	-	-

9. MAINTENANCE SCHEDULE

Daily (8 h)	<ul style="list-style-type: none"> ● Check all components according to "PRE-OPERATING CHECKS". ● Check and refill gasoline and engine oil.
Every 50 h	<ul style="list-style-type: none"> ● Wash air cleaner foam element more often if used in dirty or dusty environments. ● Check the condition of the paper element. Do not wash the paper element.
Every 100 h	<ul style="list-style-type: none"> ● Change oil more often if used in dusty or dirty environment. ● Check the spark plug and clean it if necessary.
Every 200 h	<ul style="list-style-type: none"> ● Replace air cleaner element. ● Clean fuel strainer. ● Clean and adjust spark plug gap. ● Change oil more often if used in dusty or dirty environment
Every 300 h	<ul style="list-style-type: none"> ● Check and adjust valve clearance.
Every 500 h	<ul style="list-style-type: none"> ● Remove carbon from cylinder head and the top of the cylinder. ● Clean and adjust carburetor. ● Replace engine mount rubber.
Every 1000 h (24 months)	<ul style="list-style-type: none"> ● Inspect control panel parts. ● Check rotor and stator. ● Replace engine mount rubber. ● Overhaul engine. ● Change fuel lines.

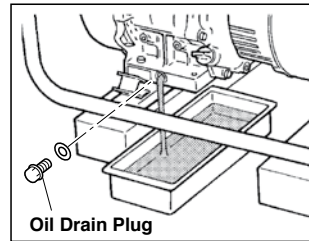
NOTE

- Maintenance operations require trained and qualified personnel.
- The maintenance schedule is given as a guide. Under severe conditions, the frequency of maintenance must be increased.
- Initial oil change should be performed after first twenty (20) hours of use. Thereafter change oil every 100 hours. Before changing the oil, check for a suitable way to dispose of the old oil. Do not pour it down sewage drains, onto garden soil or into open streams. Your local zoning or environmental regulations will give you more detailed instructions on proper disposal.

10. "HOW-TO" MAINTENANCE

10.1. ENGINE OIL CHANGE

- Change engine oil every 100 hours. (For new engine, change oil after 20 hours.)
1. Drain oil by removing the drain plug and the oil filler cap while the engine is warm.
 2. Reinstall the drain plug and fill the engine with oil until it reaches the upper level on the oil filler cap.



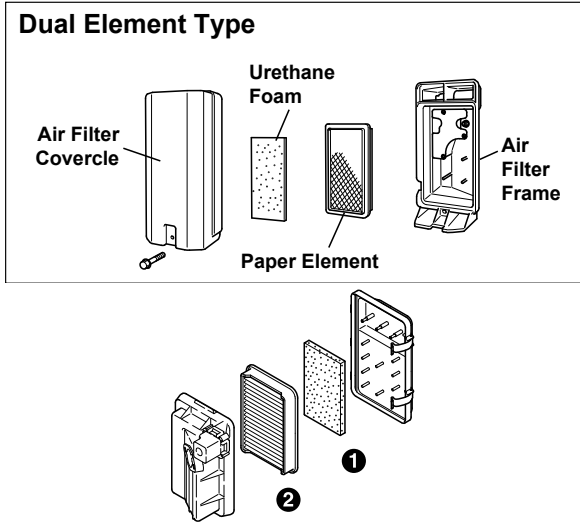
- Use fresh and high quality lubricating oil to the specified level as directed on page 9. If contaminated or deteriorated oil is used or the quantity of the engine oil is not sufficient, the engine damage will result and its life will be greatly shortened.

10.2. SERVICING THE AIR CLEANER

Maintaining an air cleaner in proper condition is very important. Dirt induced through improperly installed, improperly serviced or inadequate elements damages and wears out engines. Keep the element always clean.

URETHANE FOAM DUAL ELEMENT TYPE

- **URETHANE FOAM CLEANING:** work and clean the urethane foam with detergent. After cleaning, dry it. Clean the urethane foam element every 50 hours.
- **SECOND ELEMENT:** clean by tapping gently to remove dirt and blow off dust. Never use oil. Clean the paper element every 50 hours of operation, and replace element set every 200 hours.



Clean and replace air cleaner elements more often when operating in dusty environments.

WARNING

URETHANE FOAM CLEANING : Remove the element, wash and clean the urethane foam in kerosene. Saturate in a mixture of 3 parts kerosene and 1 part engine oil, and then squeeze to remove excess oil and put it back to the air filter.

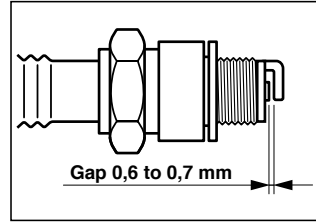
Clean and replace air cleaner elements more often when operating in dusty environments.

DANGER

Fire forbidden.

10.3. CLEANING AND ADJUSTING SPARK PLUG

1. If the plug is contaminated with carbon, remove it using a plug cleaner or wire brush.
2. Adjust the electrode gap between 0.6 and 0.7 mm.

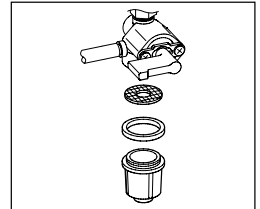


SPARK PLUG	
MIXTE 4500 / 3,2 EX	NGK BR-6HS
MIXTE 5100 / 4,0 EX	
MIXTE 7000 / 4,0 EX	
ARC 160 EX	
ARC 220 EX	

10.4. CLEANING FUEL STRAINER

Dirt and water in the fuel are removed by the fuel strainer:

1. Remove the strainer cup and throw away water and dirt.
2. Clean the screen and strainer cup with gasoline.
3. Tightly fasten the cup to main body, making sure to avoid fuel leak.



11. PREPARATION FOR STORAGE

The following procedures should be followed prior to storage of your generator for periods of 6 months or longer.

- Drain fuel from fuel tank carefully by disconnecting the fuel line. Gasoline left in the fuel tank will eventually deteriorate making engine-starting difficult.
- Remove the carburetor float chamber and also drain the carburetor.
- Change engine oil.
- Check for loose bolts and screws, tighten them if necessary.
- Clean generator thoroughly with oiled cloth. Spray with preservative if available.



WARNING

NEVER USE WATER TO CLEAN YOUR GENERATOR.

- Put the starter handle until resistance is felt, leaving handle in that position.
- Stock the generator in a well ventilated and low humidity area.

12. TROUBLESHOOTING

When generator engine fails to start after several attempts, or if no electricity is available at the output socket, check the following chart.

12.1. WHEN ENGINE FAILS TO START:

Check if choke lever is in its proper position.	Set the choke lever to "CLOSE" position.
Check if fuel cock is open.	Set the choke lever to "CLOSE" position.
Check fuel level.	If empty, refill fuel tank making sure not to overfill.
Check if the key switch of the engine is in the good position.	If connected, turn off the power switch on the connected appliance and unplug.
Check to make sure generator is not connected to an appliance.	If connected, turn off the power switch on the connected appliance and unplug.
Check spark plug for loose spark plug cap.	If loose, push spark plug cap back into place.
Check spark plug for contamination.	Remove spark plug and clean electrode.

12.2. WHEN NO ELECTRICITY IS GENERATED AT RECEPTACLE:

Check to make sure no-fuse breaker is in the "I" (ON) position.	After making sure that the total wattage of the electrical appliance is within permissible limits and there are no defects in the appliance, turn the no-fuse breaker to the "I" (ON) position. If breakers continue to actuate, consult your nearest servicing dealer.
Check AC terminals for loose connection.	Secure connection if necessary.
Check to see if engine starting was attempted with appliances already connected to generator.	Turn off switch on the appliance, and disconnect cable from receptacle. Reconnect after generator has been started properly.

If your generator still fails to start or to generate electricity, contact your nearest Robin dealer shop for further information or corrective procedures.

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