



CROMTECH GENERATORS

OPERATION & INSTRUCTION MANUAL

Thank you for selecting a Cromtech Generator. This Operation Manual explains its use, installation, checking and maintenance. We highly recommend that you retain this manual for ready reference regarding its proper handling.



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Thank you very much for purchasing a Cromtech Generator which can be used in the agricultural, mining, construction, hire industries and for general recreational appliances. Never use this generator for any other purpose. This manual covers its operation and maintenance.

Please take a moment to familiarise yourself with the proper operation and maintenance procedures to ensure the safe and efficient use of this product. Keep this manual at hand, so that you can refer to it at any time.

Due to constant efforts to improve our products, certain procedures and specifications are subject to change without notice.

When ordering spare parts, please have handy the product's model and serial numbers. Please fill in the following blanks after checking the model and serial numbers of your product. (The location of these numbers varies depending on product).

MODEL NO														
SERIAL NO														

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1. WARRANTY

CROMMELINS™ and CROMTECH™ are a registered trademark of Crommelins Machinery. Crommelins warrants their goods against defects in materials and workmanship under normal use and service. Crommelins Machinery warranty does not cover fair wear commensurate with the age of the product, any damage caused by accident, abuse, misuse, neglect, or failure to observe proper operating instructions or proper machinery maintenance as described in the instruction manual.

It is the owner's responsibility to regularly maintain a product in accordance with the instruction manual and only use the equipment for its designed purpose.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

2. CONSUMER ADVICE

Any claim under these warranties must be made in the warranty period from the date of purchase of the product.

To make a claim under the warranty, you must return the product (with proof of purchase) to the closest warranty agent or to the place of purchase.

There are over 185 national authorised service/repair agents available, visit www.crommelins.com.au for their details and locations.

Where a failure does not amount to a major failure, Crommelins Machinery is entitled to choose between providing you with a repair, replacement, or refund. To obtain compensation, you would need to provide documentary evidence of the loss or damage suffered, and documentary evidence that such loss or damage was a reasonably foreseeable consequence of a failure by Crommelins Machinery to comply with a consumer guarantee under the Australian Consumer Law.

Crommelins Operations Pty Ltd trading as Crommelins Machinery and Crommelins Australia.

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3. SAFETY PRECAUTIONS

This manual contains important information on how to use Cromtech Generators properly and safely. You must read through this manual carefully before you attempt to operate this product.

Take safety seriously, Cromtech generators are designed to give safe and dependable service if operated according to the instructions. Pay special attention to statements preceded by the following words:

 **WARNING**

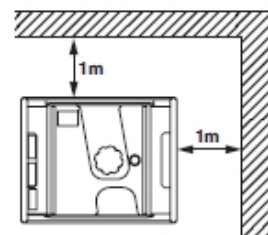
“WARNING” indicates a strong possibility of severe personal injury or loss of life if instructions are not followed.

 **CAUTION**





“CAUTION” indicates a possibility of personal injury or equipment damage if instructions are not followed.

 **WARNING**

- **ALWAYS** follow the instructions given in this manual when using this generator.
- **ALWAYS** make a pre-operation inspection before starting the engine. (For more information read engine’s instruction manual).
- **NEVER** allow anyone to operate the unit without proper instructions.
- **KNOW** how to stop the engine quickly and understand the operation of all controls.
- **DO NOT** operate the generator near petrol or gaseous fuel because there is a danger of explosion or fire.
- **DO NOT** smoke or use an open flame near the fuel tank.
- **DO NOT** fill the fuel tank with fuel while the engine is running. Allow the engine to cool before refuelling.
- **RE-FUEL OUTDOORS** or in a well-ventilated area.
- **BE CAREFUL** not to spill fuel during refuelling. If fuel is spilt, wipe it off and let dry before starting the engine.
- **DO NOT** store, spill, or use flammables / combustible material near the generator. Be careful not to place fuel, matches, gunpowder, oily cloths, straw, trash, or any other flammables or combustible material near the generator.
- **DO NOT** operate the generator inside a room, cave, tunnel, or other insufficiently ventilated area. Using a generator indoors **CAN KILL YOU IN MINUTES**. Generator exhaust contains carbon monoxide. This is poison you cannot see or smell. **NEVER** use inside a home or garage **EVEN IF** doors and window are open. Only use **OUTSIDE** and far away from windows, doors, and vents. Keep the generator at least 1 metre (3 feet) away from any structure, building or overheads.
- **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 the generator has been covered to protect it from the weather during non-use, be sure to remove and keep it well away from the area while using the generator.
- **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 is above the upper level.














⚠ WARNING

- **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. Replace damaged or worn cords immediately. 
- **DO NOT** operate in rain, 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 wet, wipe and dry it well before starting. **DO NOT** pour water directly over the generator, nor wash it with water.
- **ENSURE ALL** necessary electrical grounding procedures are followed during each and every use. Failure to do so can be **FATAL**.
- The generator **SHOULD NOT** be connected to a fixed electrical installation except by an appropriate licensed person. The output of this generator is potentially **FATAL**.
- **NO SMOKING** while handling the battery. The battery emits flammable hydrogen gas, which can explode if exposed to electric arcing or open flame. 
- **KEEP** the area well-ventilated and keep open flames/sparks away when handling the battery.
- **BE VERY CAREFUL** not to touch any parts of the hot engine especially the muffler area or serious burns may result. The engine becomes extremely hot during and for some time after operation. 
- **KEEP** all bystanders at a safe distance from the generator and work areas.
- Children and animals **MUST** always be kept away from the generator and work areas. 
- **NEVER** leave the generator unsupervised whilst in operation.
- **NEVER** allow the generator to be exposed to direct sunlight or at high temperatures.
- **ALWAYS** unplug all appliances connected to generator before starting.
- **ALWAYS** read, understand, and follow the tool/appliance instruction manuals. It is essential you know the safe and proper use of the power tool or appliance that you intend to use. Tool and appliance uses 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** 10AMP or 15AMP extension cords. When a tool or appliance is used outdoors, use only extension cords marked "For Outdoor Use". Extension cords should be stored in a dry and well-ventilated area when not in use.
- **ALWAYS** switch off the generator's AC circuit breaker and disconnect tools or appliances when not in use, before servicing, adjusting, or installing accessories and attachments.
- **DO NOT** tamper with engine speed as damage could result.
- **DO NOT** tamper with governor springs, governor links, or other parts which may increase the engine speed.
- **OBSERVE** the following cautions when transporting. Close fuel tank cap securely and close fuel tap tightly during transportation. Drain petrol or diesel from fuel tank before transporting over a long distance or on rough roads.
- **MAKE SURE** the engine is stopped before starting any maintenance, servicing or repair.
- **FAILURE** to properly maintain this generator, or improper maintenance, or failing to correct a problem before operation, could result in a significant malfunction in which you can be seriously injured or killed.

Symbols and Meanings

In accordance with the European requirements (see Directives), the specified symbols as shown in the following table are used for the products and this instruction manual.

	Read the operator's instruction manual.		Fire, open light and smoking prohibited.
	Stay clear of the hot surface.		Do not connect the generator to the commercial power lines.
	Exhaust gas is poisonous. Do not operate in an unventilated room.		Do not operate in rain or snow.
	Stop the engine before refueling.		Call for maintenance.
	Caution, risk of electric shock.		Keep dry.
	HOT, avoid touching the hot area.		

4. PRE-OPERATION CHECKS

4.1 CHECK ENGINE OIL

Before checking or refilling oil, be sure the generator is located on a stable and level surface with the engine stopped then follow these steps:

STEP 1 Remove oil filler cap and check the level of the engine oil.

STEP 2 If oil level is below the lower level line, refill with suitable oil to upper level line.

STEP 3 Do not screw in the oil filler cap when checking oil level.

STEP 4 The oil will need to be changed if contaminated.

4.2 RECOMMENDED ENGINE OIL

SAE 10W-30 or 10W-40 is recommended for general, all-temperature use.

4.3 CHECK ENGINE FUEL

WARNING

MAKE SURE you review each of the following warnings in order to prevent a fire or explosion:

- **DO NOT** refill tank while engine is running or hot.
- Before filling fuel, turn the engine switch into fuel stop/close position.
- **DO NOT** refuel while smoking or near open flame or other potential fire hazards and combustible material.
- **BE CAREFUL** not to allow dust, dirt, water or other foreign objects into fuel.
- **ALWAYS** wipe off and let dry properly any spilt fuel before starting engine.

STEP 1 Check fuel level at fuel level gauge.

STEP 2 If fuel level is low, refill with the correct fuel, use unleaded petrol.

STEP 3 Be sure to use the fuel filter screen on the fuel filter neck.

4.4 CHECKING COMPONENT PARTS

Check the 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.

4.5 CHECK GENERATOR SURROUNDINGS

WARNING

Make sure you review each of the warnings in order to prevent fire hazard.

- **KEEP** area clear of flammables or other hazardous or combustible materials.
- **KEEP** generator at least 1 metre 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 open flames. **NO SMOKING!**
- **KEEP** generator on a stable and level surface.
- **DO NOT** block generator air vents with paper or other material.

4.6 GROUNDING THE GENERATOR (if applicable)

These generators are ground to earth via the frame. If grounding is required by an earth stake, consult with a licensed electrician prior to installation.

4.7 BATTERY INSTALLATION – (Electric Start Models)

Recommended battery:

- Type – Gel mat sealed
- Capacity (Ah/5hr) – 12V-21AH or more
- Size – Less than 185(L) x 125(W) x 150(H) mm

WARNING

Death, personal injury and/or property damage may occur unless instructions are followed carefully:

- **KEEP** area clear of flammables or other hazardous or combustible materials.
- **USE** battery of recommended capacity.
- Turn the starter switch to the “O” (stop) position when mounting or dismounting battery. When mounting battery, connect the positive (+) cable first and then the negative (-) cable to the battery.
- **BE CAREFUL** not to short battery cables. When dismounting battery, disconnect negative (-) cable first:
 - **RED CABLE – To positive (+) terminal**
 - **BLACK CABLE – To negative (-) terminal**
- Incorrect connection of terminals will result in wiring and engine damage.
- **ENSURE** bolts and nuts are tightened on terminals securely so they will not be loosened by vibration.
- **DISCONNECT** battery cables when charging battery.

5. OVERLOAD PROTECTION

5.1 NON-TRADE PACK MODELS

- These generators are protected by an overload button positioned on the end cover of alternator next to the power outlets.
- In the event of overloading the generator, the overload protection button will trip and will cut the power output from the generator set and the engine will continue to run.
- Switch off the connected appliances and unplug them from the power outlets.
- Check the individual and combined appliances compliance plates for wattage draw, they must not exceed that of the generator. Push the overload button in to reset it.

5.2 TRADE PACK MODELS

- These generators are protected by an RCD device which protects against earth current faults, overload, and short circuits. This is located in a weatherproof enclosure next to the weatherproof outlets.
- This device will trip in the event of either of these being detected and cut the power output from the generator, the engine will continue to run.
- Switch off the connected appliances and unplug them from the power outlets. Check the individual appliances compliance plates for wattage draw and for any damage to the power cable or appliance.
- Reset the switch on the RCD upwards to regain power. If the RCD trips again cease using the appliance immediately.
- **NOTE:** The RCD device must be tested every time the generator is started and before any appliances are plugged in.

6. OPERATING PROCEDURES

6.1 STARTING THE GENERATOR

CAUTION

- **ALWAYS** unplug all appliances connected to generator before starting.
- **Check** the oil level before each operation as outlined by the section “CHECK ENGINE OIL”.
- **KEEP** all bystanders at a safe distance from the generator and work areas.
- Children and animals **MUST** always be kept away from the generator and work areas.

STEP 1 Turn the engine switch to the position ‘I’ (On).

STEP 2 Open the fuel valve.

STEP 3 Set choke lever to close if the engine is cold.

Recoil Start:

- Pull the starter handle slowly until passing the compression point (resistance will be felt), then return the handle to its original position and pull briskly.
- If the engine fails to start after several attempts, repeat above procedures with choke lever returned to “OPEN” position.
- Do not fully pull out the rope.
- After starting, allow the starter handle to return to its original position while still holding the handle.

⚠ CAUTION – RCBO TEST – TRADE PACKS ONLY

The RCBO device must be tested every time the generator is started and before any appliances are plugged in. To test, place the RCBO switch to the “ON” position and push the test button on the device. The switch must trip to the “OFF” position immediately. If it does not trip immediately do not use the generator and contact your nearest Crommelins Machinery service agent

Electric starter model:

- If mine spec, turn the battery isolator switch to the “ON” position, twist the emergency stop switch clockwise to ensure it is open, this procedure must be done before starting generator.
- Insert the key into the key switch and turn it clockwise to the “I” (on) position to start the engine, **IF DIESEL GENERATOR**, make sure to turn on the fuel tap by moving the lever to the down position, turn the key further to the start position until engine starts.
- These generators are fitted with IP66 weatherproof outlets, an RCD safety switch and MCB overload protection switches. After starting the generator and before every use check the RCD switch works by setting the switch to on, then push the TEST button to trip, then reset. If TEST fails and trips – **DO NOT USE THE GENERATOR** and contact your nearest service agent.

⚠ CAUTION – IF ELECTRIC START FITTED

- **DO NOT** run the starting motor over 5 seconds continuously. If the engine fails to start, return the key to the “I” (on) position and wait about 10 seconds then start again.
- **DO NOT** turn the key switch to start position when the engine is running to prevent damage of starting motor.
- When starting the engine by recoil starter, set the key switch to the “I” (on) position and pull the starter handle.

STEP 4 After the engine has started, return the choke lever gradually to “OPEN” position.

STEP 5 Warm up the engine without load for a few minutes.

6.2 STOPPING THE GENERATOR

STEP 1 Turn off the power switch of the electric equipment and unplug the cord from receptacle of the generator.

STEP 2 Allow the engine to cool down for approximately 3 minutes at no-load before stopping.

STEP 3 Recoil starter model - Turn the engine switch to the position ‘O’ (off).

STEP 4 Electric starter model - Turn the key switch to the STOP position.

STEP 5 Close the fuel valve.

6.3 OIL SENSOR

STEP 1 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.

STEP 2 When engine has stopped automatically, switch off generator’s AC circuit breaker, allow the engine to cool, and check the oil level. Refill engine oil to the upper level as outlined by the section “CHECK ENGINE OIL” and restart the engine.

STEP 3 If the engine does not start by usual starting procedures, re-check the oil level.

7. 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 centre with questions regarding power surge of certain appliances or power tools.

- Electrical loads such as 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.
- 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 50% to 30% 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 5000w generator can power an 1800 to 4000w 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 to start. For example, a 5000w generator would only be able to drive a 1000w to 1700w pump.

8. SPECIFICATIONS

Model	TG40RP	TG40HP	TG60RP	TG60HP	TG85RP	TG85HP	TG100BPE
Wattage –Max Output	3200w	3200w	5000w	5000w	7000w	7000w	8000w
Wattage – Cont. Output	3000w	3000w	4700w	4700w	6400w	6400w	7500w
Mecce Alte Alternator (Brushless)	S16W-90/2	S16W-90/2	S16W-150/2	S16W-150/2	S20W-110/2	S20W-110/2	S20W-130/2
Type	Single Phase, 2 Pole	Single Phase, 2 Pole	Single Phase, 2 Pole	Single Phase, 2 Pole	Single Phase, 2 Pole	Single Phase, 2 Pole	Single Phase, 2 Pole
Voltage Regulating System	Capacitor	Capacitor	Capacitor	Capacitor	Capacitor	Capacitor	Capacitor
AC Output (Rated Voltage – Frequency V-Hz)	240V – 50hz	240V – 50hz	240V – 50hz	240V – 50hz	240V – 50hz	240V – 50hz	240V – 50hz
Engine Brand	Robin	Honda	Robin	Honda	Robin	Honda	Briggs & Stratton
Engine Model	EX21	GX200	EX27	GX270	EX40	GX390	BS16HPES
Fuel	Petrol	Petrol	Petrol	Petrol	Petrol	Petrol	Petrol
Fuel Tank Capacity	3.6L	3.1L	6.1L	5.3L	7.0L	6.1L	7.1L
Engine Oil Capacity	0.6L	0.6L	1L	1.1L	1.2L	1.1L	
Spark Plug	NGK BR6HS	BPR6ES	NGK BR6HS	BPR6ES	NGK BR6HS	BPR6ES	RC12YC Champion
Starting System	Recoil	Recoil	Recoil	Recoil	Recoil	Recoil	Electric
Noise Level (dB @ 7m)	68dB	68dB	70dB	70dB	72dB	72dB	
Dry Weight	40kg	40kg	57kg	57kg	70kg	70kg	105kg
Package Dimensions	760 x 500 x 540mm	760 x 500 x 540mm	760 x 500 x 540mm	760 x 500 x 540mm	760 x 500 x 540mm	760 x 500 x 540mm	810 x 450 x 610mm

NOTE: Specifications are subject to change without notice.

9. FEATURES

9.1 Standard Features

- Genuine Robin or Honda industrial engine
- TG100BPE - Briggs & Stratton engine
- Low oil sensor
- Genuine Mecc Alte Brushless Alternator
- Overload protection
- Australian fabricated steel frame (25mm)
- Australian assembled and tested
- 2x Power outlets
- One-year Cromtech warranty
- Three-year Robin engine warranty
- Three-year Honda engine warranty



9.2 Trade Pack Features

- RCBO Overload and Protection
- IP66 W/P Outlets
- Handle and Wheel Kit
- Lifting Hook



10. "HOW-TO" MAINTENANCE

Maintenance is essential to give a safe and dependable service. The following sections provide information on how to care for your generator properly and safely. This includes basic inspections and simple maintenance procedures. Other service tasks that are more difficult, or require special tools should be carried out by an authorised Crommelins service agent.

WARNING

- **ALWAYS** read and follow the maintenance recommendations and schedules in this manual, and **MAKE SURE** you have the appropriate tools and skills required.
- **FAILURE** to properly maintain this generator, or improper maintenance, or failing to correct a problem before operation, could result in a significant malfunction in which you can be seriously injured or killed.
- **MAKE SURE** the engine is stopped and cooled before starting any maintenance, servicing, or repair.

NOTE: It is recommended to use ear protection when performing operation, maintenance, and repair of the generator set.

10.1 ENGINE OIL CHANGE (refer to engine instruction manual for full details)

NOTE: Before changing oil, make sure there is 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.

- For a new engine, the initial oil change should be performed after 20 hours. Thereafter, change oil as per the engine's instructions manual. To change the oil, follow these steps:

STEP 1 Drain oil by removing the drain plug and the oil filler cap while the engine is warm.

- STEP 2** Reinstall the drain plug and fill the engine with oil until it reaches the upper level on the oil filler cap.
- STEP 3** Use fresh and high-quality lubricating oil to the specified level as outlined by the section “PRE-OPERATION CHECKS”. If contaminated or deteriorated oil is used or the quantity of the engine oil is not sufficient, engine damage will result, and its life will be greatly shortened.
- STEP 4** Dispose of oil in accordance with your local zoning or environmental regulations.

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 causes damage and wears out the engine. Always keep the element clean by following these steps:

- STEP 1** Remove the bolt off the air cleaner cover.
- STEP 2** Remove the air cleaner cover and cleaner element.
- STEP 3** Urethane foam: wash urethane foam element in washing oil (kerosene) or diesel fuel. Then saturate the element in a mixture of 3 parts kerosene or diesel fuel and 1-part engine oil.
- STEP 4** Squeeze the element to remove the mixture and install it in the air cleaner.

NOTE: Instead of washing oil (kerosene), it is possible to wash the urethane foam element in a solution of mild detergent and warm water. Then rinse the element thoroughly in clean water. Allow the element to dry properly. Soak the element in clean engine oil and squeeze out excess oil.

10.3 CLEANING AND ADJUSTING SPARK PLUG

- STEP 1** If the plug is contaminated with carbon, remove and clean it with a plug cleaner or wire brush.
- STEP 2** Adjust the electrode gap to manufacturer’s specifications – refer to engine’s instruction manual.

10.4 CLEANING FUEL STRAINER

Dirt and water in the fuel are removed by the fuel strainer. To clean the strainer, follow these steps:

- STEP 1** Remove the strainer cup and clean out any water and dirt.
- STEP 2** Clean the screen and strainer cup with petrol.
- STEP 3** Tightly fasten the cup to main body, making sure to avoid fuel leak.

11. MAINTENANCE SCHEDULE

11.1 ROUTINE INSPECTIONS

This inspection schedule applies to normal operating conditions. If you operate your generator under severe conditions, such as sustained high-load or high-temperature operation, or use in dusty conditions, consult your Crommelins service agent for recommendations applicable to your needs and use.

DAILY	<ul style="list-style-type: none"> • Check oil level. • Check all components according to “PRE-OPERATION CHECKS”.
EVERY 50 HOURS	<ul style="list-style-type: none"> • Wash air-cleaner element (more often if used in dirty/dusty environments). • Check spark plug, clean if necessary.
EVERY 100 HOURS	<ul style="list-style-type: none"> • Change engine oil. * More often if used in dirty/dusty environments. • Clean spark arrestor.
EVERY 200 HOURS	<ul style="list-style-type: none"> • Adjust spark plug gap.

EVERY 500 HOURS	<ul style="list-style-type: none"> • Clean fuel strainer.
	<ul style="list-style-type: none"> • Replace spark plug and cleaner element. • Clean and adjust carburettor, valve clearance and valve seat along with cylinder head.
EVERY 1000 HOURS (24 MTHS)	<ul style="list-style-type: none"> • Inspect control panel parts. • Check rotor and starter. • Replace engine mount rubber. • Overhaul engine. • Change fuel lines.
<p>NOTE: (*) Initial oil change should be performed after first 20 hours of use. Thereafter, change oil as per the engine's instructions manual.</p>	

11.2 PERIODIC OPERATION AND INSPECTION

When generator is used as an emergency electrical power source, periodic operation and inspection is required to ensure generator will operate when needed.

Fuel and engine oil will deteriorate overtime, and this may cause the engine to be difficult to start and will result in improper engine operation and fault.

CAUTION

Since the fuel will have deteriorated overtime, replace with fresh fuel periodically, every (3) months is recommended.

STEP 1 Check the fuel, engine oil and air cleaner.

STEP 2 Check there are no leaks from the engine oil and /or fuel.

STEP 3 Start engine and check it runs smoothly and has a stable power output.

STEP 4 Apply a power load of approximately $\frac{3}{4}$ of generator continuous output capacity and allow to run for approximately 10-15 minutes.

12. TRANSPORTATION AND STORAGE

12.1 TRANSPORTATION

When transporting the generator, make sure that the fuel is drained from the tank.

CAUTION

- To prevent fuel spillage due to vibration and impact, **NEVER** transport the generator with a full fuel tank.
- **ENSURE** the fuel tank cap is securely fitted and tight.
- **NEVER** allow the generator to be exposed to direct sunlight or at high temperatures as this may cause expansion of the fuel tank and a potential danger of fire or explosion.
- **KEEP** the fuel in a separate storage tank when transporting.

STEP 1 Turn the engine switch to the "STOP" position.

STEP 2 Drain the fuel from the tank.

STEP 3 Secure the tank cap.

 **CAUTION**

- **DO NOT** place any heavy objects on the generator.
- **ENSURE** the generator is positioned on a flat surface and secured safely in the transport vehicle.

12.2 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. Fuel left in the fuel tank will eventually deteriorate making engine starting difficult.
- **PETROL ONLY** - Remove the carburettor float chamber and drain the carburettor.
- Change engine oil.
- Check for loose bolts and screws, tighten them if necessary.
- Clean generator thoroughly with oiled cloth. Spray with preservative if available. (NEVER USE WATER TO CLEAN GENERATOR).
- Pull starter handle until resistance is felt, leaving handle in that position.
- Store generator in a well ventilated, low humidity area.

13. TROUBLE SHOOTING

When generator engine fails to start after several attempts, or if no electricity is available at the output socket, check the following chart. If your generator still fails to start or generate electricity, contact your nearest service agent for further information or corrective procedures. To locate your nearest service agent, go to www.crommelins.com.au.

When Engine Fails to Start:

Check if choke lever is in its proper position.	↔	Set the choke lever to "CLOSE" position.
Check if fuel valve is open.		If closed, open fuel valve.
Check fuel level.		If empty, refill fuel tank making sure not to overfill.
Check if engine switch if in OFF position.		Turn engine switch to "ON".
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.

NO Electricity Is Generated at Receptacle:

Check and reset the overload protection button on the front of the alternator	↔	The Overload Protection may have been tripped from excessive load. Check the load source.
Check to make sure the MCBO breaker is in the "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 MCBO circuit breaker to the "ON" position. If breakers continue to actuate, consult your nearest service agent.
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.
Low power.		Contact your nearest Crommelins Machinery service agent.

14. NOTES



CROMTECH GENERATORS

OPERATION & INSTRUCTION MANUAL

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