



41.5CC
PETROL
BACKPACK BLOWER

BPB41
INSTRUCTION MANUAL

GMC[®]
GLOBAL MACHINERY COMPANY

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Warranty Power Tools

Whilst every effort is made to ensure your complete satisfaction with this tool, occasionally, due to the mass manufacturing techniques, a tool may not live up to our required level of performance and you may need the assistance of our service department.

This product is warranted for a 2-year period for home domestic use from the date of the original purchase. If found to be defective in materials or workmanship, the tool or the offending faulty component will be repaired or replaced free of charge with another of the same item. A small freight charge may apply. Proof of purchase is essential. We reserve the right to reject any claim where the purchase cannot be verified.

This warranty does not include damage or defects to the tool caused by or resulting from abuse, accidents, alterations or commercial or business use. It also does not cover any bonus items or included accessories. Only the power tool is covered under this warranty.

With continuing product development, changes may have occurred which render the product received slightly different to that shown in this instruction manual.

Please ensure that you store your receipt in a safe place.

Conditions apply to the above warranty. For full details of the warranty terms and conditions please refer to our website – www.gmcompany.com

For prompt service we suggest you log your service request online - www.gmcservice.com.au, should you not have access to the internet, please contact our service department on 1300 880 001 (Australia) or 0800 445 721 (New Zealand).

Introduction

Your new GMC power tool will more than satisfy your expectations. It has been manufactured under stringent GMC Quality Standards to meet superior performance criteria.

You will find your new tool easy and safe to operate, and, with proper care, it will give you many years of dependable service.

CAUTION. Carefully read through this entire Instruction Manual before using your new GMC Power Tool. Take special care to heed the Cautions and Warnings.

Your GMC power tool has many features that will make your job faster and easier. Safety, performance, and dependability have been given top priority in the development of this tool, making it easy to maintain and operate.

Environmental protection



Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.

Description of symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.



N380

Conforms to relevant standards for electromagnetic compatibility



Wear hearing protection.

Wear eye protection.

Wear breathing protection.



Noise label rating 88dBA (taken at 7.5 meters) you must wear ear protection at all times.



Warning.



Read these instructions for use carefully.



Use at a distance of at least 15m from other people.



Blowers and blower vacuums.

Rotating impeller blades can cause severe injury.



Explosive material.



Extremely hot surface. Do not touch a hot muffler, gear box or cylinder. You may get burned. These parts get extremely hot from operation and remain hot a short time after the unit is turned off.

Specifications

Engine:	41.5cc, 2 stroke
Rated power:	1.6 kW
Standard air volume:	12 m ³ /min
Max. air speed:	255 km/h
Max. engine speed:	6500min ⁻¹ ± 200min ⁻¹
Fuel consumption:	≤1.3 L/h
Fuel tank capacity:	1500ml
Fuel type:	2 stroke (Unleaded petrol/2-stroke engine oil)
2-stroke ratio:	40:1
Equivalent spark plug:	CHAMPION CJ8 NGK BM6A
Spark plug electrode gap:	0.635mm (0.025")
Sound pressure value:	88dBA
Net Weight:	8.5kg

Noise label rating 88dBA (taken at 7.5 meters) you must wear ear protection at all times.

General safety instructions

To use this tool properly, you must observe the safety regulations, the assembly instructions and the operating instructions to be found in this Manual. All persons who use and service the machine have to be acquainted with this Manual and must be informed about its potential hazards.

Children and infirm people must not use this tool. Children should be supervised at all times if they are in the area in which the tool is being used. It is also imperative that you observe the accident prevention regulations in force in your area. The same applies for general rules of occupational health and safety.

WARNING. When using power tools, basic safety precautions should always be taken to reduce the risk of fire, electric shock and personal injury. Also, please read and heed the advice given in the additional important safety instructions.

Safety rules for petrol blowers

Training

- **Read the instructions carefully.** Get familiar with the controls and proper use of the equipment.
- **Only use the blower for the purpose for which it was designed, i.e. blowing garden debris.** Any other use can be hazardous, causing damage to the machine.
- **Never allow children or people unfamiliar with these instructions to use the blower.** Local regulations may restrict the age of the operator.
- **Never use the blower:**
 - When people, especially children, or pets are nearby.
 - If the operator has taken medicine or substances that can affect his ability to react and concentrate.
- **Remember that the operator or user is responsible for accidents or hazards occurring to other people or their property.**

Preparation

- **While blowing, always wear sturdy footwear and long trousers.** Do not operate the equipment with bare feet or open sandals.

- **WARNING: DANGER!** Engine fuel is highly flammable:
 - Store fuel in containers specifically designed for this purpose.
 - Refuel using a funnel and outdoors only. Do not smoke while re-fuelling or whenever handling the fuel.
 - Add fuel before starting the engine. Never remove the cap of the fuel tank or add fuel while the engine is running or when the engine is hot.
 - If fuel is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until the fuel has evaporated and the vapour dispersed.
 - Replace all fuel tanks and containers caps securely.
- **Substitute faulty silencers.**
- **Before use, always inspect the machine and check that the screws are not worn or damaged.**
- **It is advisable to wear suitable eye protection when operating the blower.**

Maintenance and storage

- **Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.** Regular maintenance is essential for safety and performance.
- **Never store the equipment with fuel in the tank inside a building where vapour may reach a flame or a spark or a source of extreme heat.**
- **Allow the engine to cool before storing in an enclosed space.**
- **To reduce the fire hazard, keep the engine, exhaust silencer, battery compartment (if applicable) and fuel storage area free of grass, leaves, or excessive grease.**
- **If the fuel tank has to be drained, this should be done outdoors and when the engine is cool.**
- **For reasons of safety, do not use the equipment with worn or damaged parts.** Parts are to be replaced and not repaired. Parts that are not of the same quality can damage the equipment and be dangerous for your safety.

- **Fuel goes off fairly quickly.** If you find your blower does not start, 1st change the fuel in the tank with newly purchased fuel.

Service

- **Have your power tool serviced by a qualified repair personnel using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Operation safety instructions

WARNING. Stop the engine and unplug the spark plug before any repairs or maintenance operations.

- **Check that all nuts, bolts and screws are well tightened before every use.**
- **Do not run the engine in an enclosed and/or poorly ventilated area.** The gas of the engine contains carbon monoxide, which is dangerous to your health.
- **Work only when there is sufficient light.**
- **Do not use the blower when it is raining or when the grass is wet.**
- **Caution must be taken while blowing on slopes.**
- **Turn off the engine if you must leave the blower unattended.**
- **Never change the rated speed of the engine in any way.**
- **Stop the engine and remove the spark plug cover in these cases:**
 - Before any maintenance, repairing or checking operations.
 - If you leave the blower unattended.
 - If the blower vibrates in an abnormal way, take the blower to an authorized service centre.
 - Check the bolts and nuts regularly. Bolts and nuts may vibrate loose over time.

WARNING. Fuel is highly flammable.

- **Keep fuel in a jerry can specially made for this purpose.**
- **Fill the fuel tank with a funnel and outside.** Do not smoke or use a mobile phone during this process.

- **Fill with fuel and oil before starting the engine.** Never open the cap of the fuel tank to add gasoline while the engine is running or still hot.
- **Do not start the engine if there is spilt fuel on the blower or in the area surrounding.** Take the blower away from the zone where fuel has been split and avoid any contact from a hot source as long as the split gasoline is completely evaporated.
- **Tighten the fuel tank cap and jerry can cap tightly.**

Additional safety rules for petrol blowers

- Do not operate in a hazardous location. Such areas include where there is a risk of explosion of petrol fumes, leaking gas or explosive dust.
- Do not operate in a confined area. Exhaust gases, smoke or fumes could reach dangerous concentrations.
- Protect your blower. This blower is NOT WEATHERPROOF and should not be exposed to direct sunlight, high ambient temperature and damp, wet or high humidity conditions.
- Do not smoke while refuelling. This is potentially dangerous as it may ignite the fuel and cause an explosion.
- Take care not to spill fuel. When refuelling the blower ensure that the motor has been switched off. Prevent the spilling of fuel as this may also ignite with the hot motor. Never refuel whilst the engine running.
- Be careful where you store the blower. Store the blower in a dry area away from flammable liquids.
- Keep your distance. The blower emits exhaust fumes. Ensure bystanders keep a safe distance.
- Ensure you use oil-mix fuel. Ensure that you mix 40 parts unleaded fuel to 1 part engine grade oil. If not, the engine will overheat and cause damage to your blower.
- Never fill fuel tank indoors. Never fill fuel tank when engine is running or hot. Do not smoke when filling fuel tank.
- Stop the engine before re-fuelling.

- Stop the engine and disconnect the spark plug wire:
 - Whenever you leave the machine
 - Before clearing a blockage
 - Before checking, cleaning or working on the appliance
 - If the blower starts to vibrate abnormally (find and remove the cause of the vibration immediately).
- Reduce the throttle before turning off the engine and turn the fuel off when you have finished blowing.
- The user is responsible for the safety of other people, animals and objects in the working area. Keep children and domestic animals at a safe distance while the blower is in use.

Unpacking

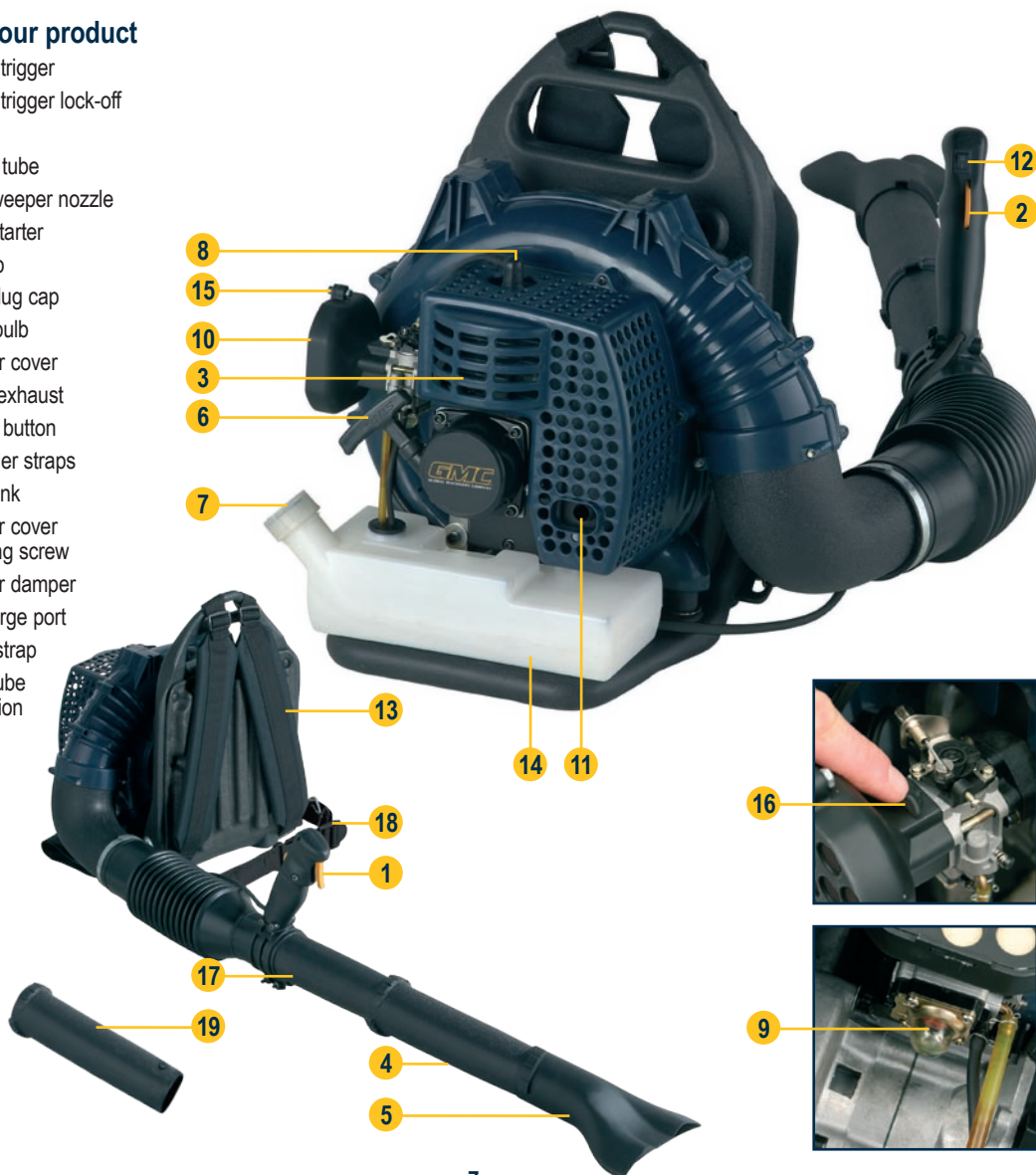
Due to modern mass production techniques, it is unlikely that your petrol line trimmer is faulty or that a part is missing. If you find anything wrong, do not operate the tool until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.

Contents of carton

- Wide Sweeper Nozzle
- Blower Tubes (2 pieces)
- Padded Shoulder / Waist Straps (fitted)
- Spark Plug Wrench
- Mixing Bottle

Know your product

1. Throttle trigger
2. Throttle trigger lock-off
3. Motor
4. Straight tube
5. Wide sweeper nozzle
6. Recoil starter
7. Fuel cap
8. Spark plug cap
9. Primer bulb
10. Air filter cover
11. Outlet exhaust
12. On/Off button
13. Shoulder straps
14. Fuel tank
15. Air filter cover retaining screw
16. Air filter damper
17. Discharge port
18. Waist strap
19. Blow tube extension



Assembly

IMPORTANT. Blower tube installation affects the blower's performance. Ensure the tube is fitted correctly before every use.

WARNING. Danger from rotating impeller! Stop the engine and remove the spark plug cap before installing or removing the blower tubes. Never perform any maintenance or assembly procedures on this machine while the engine is running.

1. Place the blower upright on the ground or on a sturdy work surface.
2. Push the wide sweeper nozzle (5) over the straight tube (4) lining up the locking pins.
3. Rotate the nozzle tube clockwise locking it into place.
4. Push the assembled blower tube over the discharge port (17).



5. With the locking pins lined up, rotate the straight tube (4) clockwise to lock it into position.

Before Use

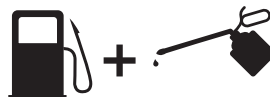
IMPORTANT. This machine is fitted with an impeller which runs at high speeds. Ensure this instruction manual is thoroughly read AND understood. Incorrect operation may cause serious injury.

Mixing the fuel

CAUTION. Use of pure fuel is prohibited strictly!

ENGINE FUEL: MIX AT 40:1

(40 parts unleaded fuel to 1 part 2-stroke oil)



IMPORTANT. Use good quality air cooled 2-stroke engine oil.

This product is powered by a 2-stroke engine and requires pre-mixing fuel with 2-stroke oil.

1. Use fresh unleaded petrol. You must use 100% synthetic oil specifically made for heavily stressed two-stroke engines.
2. Mix the petrol and oil in an approved container. Never mix fuel directly in the blower fuel tank.
- WARNING.** Never use any type of pre-mixed fuel/oil direct from fuel stations. This may include special blends intended for use in mopeds, motorcycles, etc.
3. Mix the fuel thoroughly and also each time before fuelling.
4. Always pre-mix in small quantities. Never mix quantities larger than what will be used in a 30 day period.

Note. Do not store petrol in plastic containers.

Keep fuel out of the reach of children.

Note. 2 stroke fuel has a limited shelf life of approximately 3 - 4 months. To avoid possible issues with starting and running the machine, the fuel should be changed at regular intervals.

Filling the fuel tank

WARNING. Always shut off the engine before fuelling.

Never add fuel to a machine with a running or hot engine. Move at least 9 m (30 ft.) away from the re-fuelling site before starting engine. Do not smoke when re-fuelling or operating the blower.

WARNING. Do not use another mixture ratio other than 40:1 and never use pure fuel. Do not use fuel that is more than 2-3 months old. Empty the tank during longer breaks and fill it up again as soon you wish to use the blower again.

Note. It is normal for smoke to be emitted from a new engine during and after first use.

1. Place the blower upright on the ground or on a sturdy bench and wipe any debris from around the fuel cap (7).
2. Unscrew the fuel cap (7) and pour the mixture into the tank using a funnel (not supplied).



3. Be careful not to spill any mixture. If this happens, wipe the spill with a clean rag.
4. Start the engine at least three metres away from the area where the fuel tank has been filled up in order to avoid any risk of fire.
 - Danger of fire and burn injuries.
 - Always use extreme care when handling fuel! Fuel is highly flammable.
 - Never attempt to fuel the blower if the fuel system components are damaged or are leaking.
 - Never attempt the refuel the engine while it is running or still warm, allow it to cool before fuelling.

- Never smoke or light any fires near the blower or fuels.
- Always transport and store fuels in an approved container.
- Never place flammable material close the engine muffler.
- Do not use petrol which contains ethanol or methanol as it may damage the fuel lines and other engine parts.
- Mix only enough fuel for your immediate needs. If fuel must be stored longer than 30 days, it should first be treated with a stabilizer or similar product.

Fitting the safety straps (shoulder and waist)

IMPORTANT. Safety straps must be completely adjusted before initially starting the blower.

IMPORTANT. Ensure the straps are always used to support the blower during use.

The blower must be used with the shoulder straps (13) and waist strap (18) provided.

Note. Adjust the straps first with the device in the off position.

1. Place the shoulder straps on your shoulders and fasten the waist strap by pushing the buckles together.
2. Set the belt lengths tight for greater safety and comfort during use.

Operation

IMPORTANT. Do not allow the machine to operate continuously for a long time. Keep it switched off for 20 minutes for every 30 minutes of operation. Total operation time in a day should be less than two hours.

Starting the blower

To start the engine, proceed as follows:

For cold starting:

1. Manually press the primer (9) 5 to 6 times or until there are no air bubbles visible in the fuel discharge line. This will indicate that the carburettor is full
2. Close the air filter damper (16).



3. Move the On/Off Button (12) to ON (I) position.
4. Lock the throttle into mid way 'Start' position by holding in the throttle trigger lock-off (2) and squeezing the throttle trigger (1) completely in. Release the throttle trigger lock-off (2) first, and then release the throttle trigger (1).



Note. The throttle trigger (1) will now be in the mid way 'Start' position.

5. Place the unit on a stable surface and position one hand on the top of the unit for support, and use the other to pull the recoil starter (6).
6. Once the engine has started, open the air filter damper (16) slowly.
7. Allow the engine to run for 10 seconds to let it warm up before use.
8. To increase the engine speed squeeze the throttle trigger (1).



Note. To reduce the engine speed release the throttle lever.

For warm starting:

1. Ensure the priming bulb (9) is full.
2. Move the air filter damper (16) to the half way position.



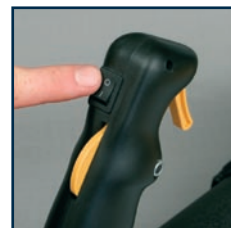
3. Move the On/Off Button (12) to ON (I) position.
4. Place the unit on a stable surface and position one hand on the top of the unit for support, and use the other to pull the recoil starter (6).
5. Once the engine has started, open the air filter damper (16).
6. Allow the engine to run for 10 seconds to let it warm up before use.
7. To increase the engine speed squeeze the throttle trigger (1).



Note. To reduce the engine speed release the throttle lever.

Stopping the blower

1. Release the throttle trigger (1) completely
2. Press the On/Off button (12) in the Off (O) position.



Running in the engine

1. During the initial 2-3 hours of work since purchase, run the engine at a moderate RPM.
2. We advise you in any case not to maintain your engine at a high speed as the different components must settle with each other during the process of 'running in' the engine.
3. It is at the end of the running in period that the engine will reach its maximum power.
4. After the first two hours of work, stop and make sure that all nuts and screws are securely fastened, and tighten them if necessary.

Blowing

Start the blower engine, as previously described. Hold the blower nozzle firmly about 10 - 20 cm from the ground and move it in a sweeping motion from left to right, directing the debris to the desired location.

- Use low throttle settings when clearing lightweight materials from around lawns or shrubbery.
- Use medium to higher throttle settings to move lightweight grass or leaves from driveways or paths.
- Use full throttle when moving heavy loads such as dirt or snow.
- Be aware of your surroundings at all times and take care when directing debris with the blower.

IMPORTANT. Blower noise increases at higher throttle settings. Always use the lowest throttle setting required to get the job done.

- Never operate the blower unless it is properly assembled and in good working condition.
- Never operate the blower without a properly functioning muffler and spark arrestor installed.

Be aware of your surroundings at all times as debris may misdirect and cause harm to others

Use of the petrol blower

- The GMC petrol backpack blower can efficiently move a wide variety of debris ranging from grass clippings to gravel. As a general rule try to operate the blower at the lowest throttle setting necessary to get the job done.
- Prior to use of the blower ensure you have read and understood this instruction manual.
- Ensure you are wearing suitable clothing and also safety equipment like safety glasses, ear protection and a mask if necessary.

Maintenance

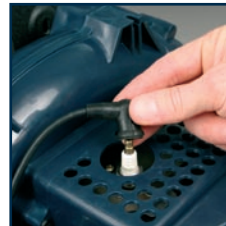
WARNING. Before performing any maintenance on this blower, stop the engine and disconnect the spark plug wire.

Checking the spark plug

Check the spark plug every 10 - 15 hours of use.

Note. There is a replacement spark plug included with the blower.

1. Remove the spark plug cover.
2. Use the spark plug wrench to remove the spark plug by turning it counter-clockwise.



3. Clean and adjust the spark plug gap to 0.6 - 0.7mm. Replace any damaged or visibly worn plug with a CHAMPION CJ8, NGK BM6A or equivalent spark plug.
4. Install the spark plug finger tight in the cylinder head, then tighten it firmly with the spark plug wrench.



Air filter

Accumulated dust in the air filter will reduce engine efficiency, increase fuel consumption and allow abrasive particles to pass into the engine. Remove the air filter as often as necessary to maintain a clean condition.

IMPORTANT. The air filter should be checked approximately every 10 hours of use, or more frequently in dusty areas.

1. Remove the air filter cover retaining screw (15), and remove the cover and filter element.
2. Inspect the element. If the element is distorted or damaged, replace it with a new one.
3. Wash the filter in detergent and water. Rinse the filter thoroughly. Squeeze out excess water. Allow it to dry completely before reinstalling.
4. Install the element and cover and then tighten the retaining screw.



Useful tips

- Light surface dust can readily be removed by tapping the filter.
- Heavy deposits should be washed out in suitable detergent.
- Squeeze out the remaining water and allow the filter to completely dry.
- Add a drop of thin oil to the filter and replace it.

Servicing

- It is recommended once you first use your petrol blower have it serviced after 15 hours of use by an authorised service centre.
- From thereafter, service the petrol blower every 2 years.

Storage and maintenance after use

- When you finish working, clean the petrol blower completely.
- Inspect the entire blower and tubes for damage, including loose or missing components, and repair anything necessary.
- Store the petrol blower away from direct sunlight.
- Do not store in a nylon bag as this can encourage the formation of mould.
- Use a small brush to clean off the outside of the unit and keep the air vents free from obstructions. Do not use water or a hose to clean the unit.

Whenever the machine is not used for a long period of time, proceed as follows:

- Give the petrol blower an overall cleaning and a thorough check.
- Empty the fuel tank completely, then clean the carburetor and lines by running the blower until it stops from lack of fuel.
- Protect all metal engine parts from corrosion by coating them with oil.
- Remove the spark plug, put several drops of oil into the cylinder through the spark plug hole and then pull the recoil starter 2 to 3 times in order to distribute the oil evenly. Replace the spark plug and spark plug cover.
- Clean the air filter as described in the air filter section.

Problems

Power loss or sudden stopping of the engine

- Check whether the fuel tank is empty.
- There is water in the mixture. Drain and rinse the fuel system with petrol.
- Check the age of the fuel as fuel older than 3 - 4 months can cause running and starting problems.
- The air filter is dirty. Clean the air filter.

Starting a flooded engine

- Disconnect the spark plug lead, and use the plug wrench to remove the spark plug in a counter clockwise direction.
- If the spark plug is fouled or is soaked with fuel, clean or replace the plug as required.
- Clean excess fuel from the combustion chamber by cranking the engine several times while the spark plug is removed.
- Install the spark plug and firmly tighten it with the spark plug wrench.
- Repeat the starting procedure as if the blower was already warm.

GMC customer assist

If your product needs repairing, replacing, technical service or you simply need help or advice, please contact us on our Customer Assist Line 1300 880 001 (Australia) or 0800 445 721 (New Zealand).

For prompt service we suggest you log your service request online at www.gmcservice.com.au. Should you not have access to the Internet, please contact our service department on 1300 880 001 (Australia) or 0800 445 721 (New Zealand). 7am – 7pm, 7days a week (AEST).

Please note that if repair or replacement is required, you must provide a valid original purchase receipt.

You will need the following details at hand to log your service request;

Personal details: First & Last name, address, pick up address, contact phone numbers, email address

Product details: Product number, date of purchase, retailer bought from, State & postcode, receipt number, reason for the request, copy of official purchase receipt

Attach your purchase receipt and save with this Manual for future reference.

Please refer to our website www.gmcompany.com for full GMC warranty Terms and Conditions.

Attach Your
Receipt Here

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