

GMC[®]

GLOBAL MACHINERY COMPANY

INSTRUCTION MANUAL

1450W

7" Grinder/Sander/Polisher



2 YEAR
REPLACEMENT
WARRANTY

30 DAY
SATISFACTION
GUARANTEE

• Melbourne • Perth • Auckland • Hong Kong • Shanghai
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Contents

<i>Warranty</i>	<i>2</i>
<i>Introduction</i>	<i>3</i>
<i>Environmental protection</i>	<i>3</i>
<i>Description of symbols</i>	<i>3</i>
<i>Specifications</i>	<i>3</i>
<i>Safety instructions</i>	<i>4</i>
<i>Additional safety rules for sanders</i>	<i>5</i>
<i>Additional safety rules for angle grinders</i>	<i>6</i>
<i>Additional safety rules for polishers</i>	<i>7</i>
<i>Accessories</i>	<i>7</i>
<i>Unpacking</i>	<i>7</i>
<i>Know your product</i>	<i>8</i>
<i>Setting up</i>	<i>9</i>
<i>Operation in grinder mode</i>	<i>9</i>
<i>Operation in sander mode</i>	<i>11</i>
<i>Operation in polisher mode</i>	<i>12</i>
<i>Replacing the rubber disc</i>	<i>13</i>
<i>Maintenance</i>	<i>13</i>
<i>Cleaning</i>	<i>13</i>
<i>General inspection</i>	<i>13</i>



Dear Customer

If you require any help with your product, whether it is a Warranty claim, spare part or user information, please phone our Help Line for an immediate response. Phone 1300 880 001 in Australia or 0800 445 721 in 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.



Wear hearing protection.

Wear eye protection.

Wear breathing protection.



Double insulated for additional protection.



N380

Conforms to relevant standards for electromagnetic compatibility.

Specifications

Nominal voltage:	230–240Vac ~ 50Hz
Input power:	1450W
No Load Speed:	1500–6500 RPM
Insulation class:	Double Insulated
Disc size:	7"
Spindle:	15.88mm (M14)

Safety instructions

The tool must be used only for the prescribed purpose. Any uses other than those mentioned in this manual will be considered a case of misuse. The user and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse.

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.

The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes.

Warning. Before connecting a tool to a power source (mains power point receptacle, outlet, etc.), be sure that the voltage supply is the same as that specified on the nameplate on the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user, as well as damage to the tool. If in doubt, do not plug in the tool. Using a power source with a voltage less than the nameplate rating is harmful to the motor.

Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the tool's construction and design:

- Contact with the disc.
- Kickback of work piece and parts of work piece.
- Disc fracture.
- Catapulting of disc pieces.
- Damage to hearing if effective earmuffs are not worn.

- Do not use discs that are deformed or cracked.
- Always remove the plug from the mains socket before making any adjustments or maintenance, including changing the disc.

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.

1. **Keep the work area clean and tidy.** Cluttered work areas and benches invite accidents and injury.
2. **Consider the environment in which you are working.** Do not use power tools in damp or wet locations. Keep the work area well lit. Do not expose power tools to rain and high humidity. Do not use power tools in the presence of flammable liquids or gases.
3. **Keep visitors away from the work area.** All visitors and onlookers, especially children and infirm persons should be kept well away from where you are working. Do not let others in the vicinity make contact with the tool or extension cord.
4. **Store tools safely.** When not in use, tools should be stored in a dry, high place or locked up out of reach.
5. **Do not force the tool.** The tool will do the job better and safer working at the rate for which it was designed.
6. **Use the correct tool for the job.** Do not force small tools or attachments to do the job best handled by a heavier duty tool. Never use a tool for a purpose other than that for which it was intended.
7. **Dress correctly.** Do not wear loose clothing or jewellery. They can be caught in moving parts. Rubber gloves and non-slip footwear are recommended when working outdoors. If you have long hair, wear a protective hair covering.
8. **Use safety accessories.** Safety glasses and earmuffs should always be worn. A face or dust mask is also required.

- 9. Connect dust extraction equipment.** If devices are provided for the connection of dust extraction and collection facilities, ensure that these are connected and properly used.
- 10. Do not abuse the power cord.** Never pull the cord to disconnect the tool from the power point. Keep the cord away from heat, oil and sharp edges.
- 11. Secure the work piece.** Use clamps or a vice to hold the work piece. It is safer than using your hand and frees both hands to operate the tool.
- 12. Do not overreach.** Keep your footing secure and balanced at all times.
- 13. Look after your tools.** Keep tools clean and sharp for better and safer performance. Follow the instructions regarding lubrication and accessory changes. Inspect tool cords periodically and, if damaged, have them repaired by an authorised service facility. Inspect extension cords periodically and replace them if damaged. Keep tool handles dry, clean and free from oil and grease.
- 14. Disconnect idle tools.** Switch off the power and disconnect the plug from the power point before servicing, when changing accessories and when the tool is not in use.
- 15. Remove adjusting keys and wrenches.** Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before switching it on.
- 16. Avoid unintentional starting.** Always check that the switch is in the OFF position before plugging in the tool to the power supply. Do not carry a plugged in tool with your finger on the switch.
- 17. Use outdoor rated extension cords.** When a tool is used outdoors, use only extension cords that are intended for outdoor use and are so marked.
- 18. Stay alert.** Watch what you are doing. Use common sense. Do not operate a power tool when you are tired.
- 19. Check for damaged parts.** Before using a tool, check that there are no damaged parts. If a part is slightly damaged, carefully determine if it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, proper mounting and any other conditions that may affect the operation of the tool. A part that is damaged should be properly repaired or replaced by an authorised service facility, unless otherwise indicated in this Instruction Manual. Defective switches must be replaced by an authorised service facility. Do not use a tool if the switch does not turn the tool on and off correctly.
- 20. Guard against electric shock.** Prevent body contact with grounded objects such as water pipes, radiators, ranges and refrigerator enclosures.
- 21. Use only approved parts.** When servicing, use only identical replacement parts. Use an authorised service facility to fit replacement parts.
- Warning.** The use of an accessory or attachment, other than those recommended in this Instruction Manual, may present a risk of personal injury.
- ### **Additional safety rules for angle grinders**
- Fully unwind cable drum extensions to avoid potential overheating.
 - When an extension cable is required, you must ensure that it has the right ampere rating for your power tool and is in safe electrical condition.
 - Always switch off before you put the angle grinder down.
 - Do not let anyone under 18 years operate this tool.
 - Rags, cloths, cord, string and the like should never be left around the work area.
 - If you are interrupted when operating the tool, complete the process and switch off before looking up.
 - Periodically check that all nuts, bolts and other fixings are properly tightened.

- Check the disc before mounting it into the angle grinder. Check by striking it with a wooden handle whilst balancing the disc on your finger. Listen for the ring and do not use if dull, as the disc may be cracked.
- When the disc is installed, run it for at least one minute to ensure that it does not have a fault. It is always advisable to stay out of the line of the disc when testing or when using the tool.
- Do not use a disc marked with a lower RPM than that of the no load speed shown on the rating plate.
- Use discs only of the prescribed diameter.
- Never try to operate the angle grinder without the guard in place.
- Do not secure the angle grinder in a vice or work bench and use it as a static grinder. It can lead to serious injury.
- Never apply excessive pressure to the disc. It might shatter causing personal injury.
- Ensure the work piece to be ground or cut, is held tight in the vice or other clamping system.
- Always use the front handle and ensure a good grip on the grinder housing with one hand and the handle with the other hand before proceeding with any work.
- Make sure that the disc is not in contact with the work when you start the grinder.
- Be careful not to damage the spindle or either of the disc flanges. Damage to these parts could result in disc breakage.
- Do not press the spindle lock button whilst the spindle is turning.
- Only use good quality grinding and cut off discs. Cheap poor quality discs tend to glaze up which loads the motor and can damage it. Use discs for their designated purpose only. For instance, do not use cutting discs for grinding or metal wheels on masonry.
- Watch out for flying sparks. Hold the tool at an angle of

approximately 15° to 30° to the work piece surface.

- Let the disc do the grinding or cutting at a reasonable feed, as overloading will occur if too much pressure is applied and the disc slows resulting in inefficient cutting and possible damage to the motor.
- When using the grinder, use safety equipment including safety goggles or shield, ear protection, dust mask and protective clothing including safety gloves.

Additional safety rules for sanders

Warnings. Before connecting a tool to a power source (mains switch power point receptacle, outlet, etc.) be sure that the voltage supply is the same as that specified on the nameplate of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user, as well as damage to the tool. If in doubt, do not plug in the tool. Using a power source with a voltage less than the nameplate rating is harmful to the motor.

Always remove the plug from the mains socket before making any adjustments or maintenance, including changing the sanding belt.

- Fully unwind cable drum extensions to avoid potential overheating.
- When an extension cable is required, you must ensure that it has the right ampere rating for your power tool and is in safe electrical condition.
- After long working periods external metal parts and accessories could be hot.
- If possible, always use clamps or a vice to hold your work.
- Always switch off before you put the sander down.
- Do not force the sander; let the tool do the work at a reasonable speed. Overloading will occur if too much pressure is applied and the motor slows resulting in inefficient sanding and possible damage to the sander motor.

- *When sanding wood, always connect the dust bag or use a dust extraction system.*
- *Before using the sander with metal, always remove the dust bag from the outlet as sparks may ignite the dust or the bag.*
- *Do not continue to use worn, torn or heavily clogged sanding discs.*
- *Do not touch the moving sanding disc.*
- *Ensure that you have removed foreign objects such as nails and screws from the work before commencing sanding.*
- *Rags, cloths, cord, string and the like should never be left around the work area.*
- *Use safety equipment including safety goggles or shield, ear protection, dust mask and protective clothing including safety gloves.*

Additional safety rules for polishers

- *Fully unwind cable drum extensions to avoid potential overheating.*
- *When an extension cable is required, you must ensure that it has the right ampere rating for your power tool and is in safe electrical condition.*
- *Always switch off before you put the polisher down.*
- *Do not let anyone under 18 years operate this tool.*
- *Rags, cloths, cord, string and the like should never be left around the work area.*
- *If you are interrupted when operating the tool, complete the process and switch off before looking up.*
- *Periodically check that all nuts, bolts and other fixings are properly tightened.*
- *Always use the front handle and ensure a good grip on the polisher rear handle with one hand and the front handle with the other hand before proceeding with any work.*
- *Make sure that the disc is not in contact with the work*

when you start the polisher.

- *Do not press the spindle lock button whilst the spindle is turning.*
- *When using the polisher, use safety equipment including safety goggles or shield, ear protection, dust mask and protective clothing including safety gloves.*

Wear goggles

Wear hearing protection

Wear a breathing mask

Accessories

The GMC POL1450 Grinder/Sander/Polisher is supplied with the following accessories as standard:

- *Side handle*
- *Metal grinding disc*
- *Disc guard*
- *Polishing sponge*
- *Polishing bonnet*
- *Rubber disc*
- *Sanding disc*
- *Pin wrench*
- *Allen key*
- *Instruction manual*
- *Receipt holder*

Unpacking

Due to modern mass production techniques, it is unlikely that your GMC Power Tool 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.

Know your product

Before using the polisher, familiarise yourself with all the operating features and safety requirements.

Use the tool and accessories only for the applications intended. All other applications are expressly ruled out.

1. Motor housing
2. Spindle lock button
3. Variable speed dial
4. Rear handle
5. Soft grip
6. Mounting points for the multi position front handle
7. On/Off switch
8. Lock-off button
9. Multi-position front handle
10. Rubber disc
11. Polishing sponge
12. Polishing bonnet
13. Sanding disc
14. Grinding disc
15. Disc guard
16. Inner flange
17. Outer flange



Sander

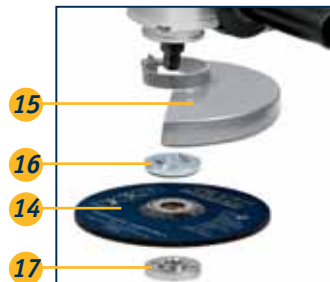


**Disc assembly
Polisher**



Grinder

Depressed disc (thicker than 5mm)



Depressed disc (5mm or less in thickness)



Setting up

Multi position front handle

Screw the multi position front handle (9) into the most suitable mounting point (6) (left side, right side or at the top) to suit the task on hand.



Variable Speed

The POL1450 is fitted with a variable speed dial (3) that allows you to adjust the speed to suit the application and material. The tool operates between the speeds of 1500 RPM – 6500 RPM, the higher the number on the variable speed dial, the higher the speed. For polishing and buffing applications it is recommended that a lower speed (1500 RPM) is used. For sanding applications it is recommended that a medium speed (3500 RPM) is used to provide efficient material removal, for grinding applications the maximum speed (6500 RPM) should be selected.



Warning. Do not operate the machine with a polishing bonnet attached above 1500 RPM (Position 1 on the variable speed dial).

Operation in grinder mode

Fitting the grinding disc

Switch off the tool and disconnect it from the power supply.

Warning. The guard must always be attached and secured to the tool during angle grinding applications.

1. Fit the guard (15) onto the spindle collar and rotate to the required working



position. The closed side of the guard must always be facing the operator.

2. Insert the guard securing screw and tighten using the matching nut. Use the supplied Allen key to securely tighten the screw.
3. Place the inner flange (16) onto the spindle making sure it fits securely.
4. Ensure that the non-threaded inner flange is on the spindle and located correctly. The two machined flat sections on the inner flange must face the angle grinder and locate in the matching positions on the spindle.
5. Place the grinding or cutting disc on top of the inner flange ensuring the bore fits into the raised centre section of the flange.
6. Place the outer flange (17) over the spindle. For grinding and cutting discs which are 5mm or thicker, fit



the outer locking flange (17) with the raised centre section inwards towards the wheel. This helps to locate the disc on the flanges.

7. For grinding and cutting discs which are less than 5mm in thickness, fit the outer locking flange with the raised centre section facing outwards, away from the disc.
8. Failure to fit the outer flange correctly as detailed above will result in the outer flange tightening on the inner flange but not clamping the disc.



9. To tighten, press and hold the spindle lock button (2) and using the pin wrench tighten the outer flange.
10. Turn the new disc by hand, ensuring that it is tight in the flanges and that it rotates fully and does not wobble unduly.
11. Run the angle grinder at no load for at least one minute to ensure the new disc is in good condition. Make sure you are wearing all the safety gear and that you face the grinder away from you.

Switching on and off

Before starting the grinder, first ensure the disc, guarding and the tool is in good condition. Plug the cordset into the mains socket and set up for the task to be performed.

Warning. Ensure you are wearing safety glasses.

1. Hold the tool firmly in anticipation of the start up torque.
2. Press and hold the lock-off button (8) and squeeze the on/off trigger switch (7).

Note. Once the tool has started there is no need to maintain pressure on the lock-off button.



3. Allow the grinder to start and attain full speed before bringing the disc to the work piece.
4. To prevent a new grinding disc from digging into the work piece, first draw the grinder across the work piece towards the operator. Once the leading edge of the disc is slightly worn down, grinding can be conducted in either direction.
5. Once the grinding or cutting is finished, remove the disc from the work piece. To turn the tool off, release the on/off trigger switch. The lock-off button (8) will re-engage.
6. The tool will stop. (Please note that the disc continues to spin for a few seconds even though the switch is turned off). Keep hands well away from the moving disc. Do not place the tool down until the grinder has come to a complete stop.

Holding and guiding the tool

1. Always clamp the work piece.
2. Do not overload the tool so that the disc slows down. Let the tool do the work rather than applying pressure. The weight of the tool alone provides sufficient pressure.
3. Cutting discs become very hot when in use. Take care not to touch them until they have cooled down.
4. Hold the tool securely and make sure that you have full control at all times.
5. During a cutting operation, maintain an angle of 30 to 40 degrees between the tool and the work piece.
6. During grinding, maintain an angle of 15 to 30 degrees between the tool and the work piece.

Operation in sander mode

Fitting the Sandpaper

Switch off the tool and disconnect it from the power supply.

1. The GMC grinder/sander/polisher is fitted with a hook & loop base allowing easy changing of accessories. Ensure there are no debris left in the hooks & loops of the disc before fitting accessories.
2. Align the sandpaper with the rubber disc and press down firmly to ensure a good grip.
3. Special care must be taken with Hook & Loop platens, as a build up of dust, or wearing the sandpaper down completely before changing it, can result in damage to the hooks & loops on the platen and require a new platen to be fitted.



Note: Hook & Loop platens are not a warranty item.

Selecting the right grade of sandpaper

1. Different grades of sandpaper can be purchased from your local hardware store.
2. Typical grades are coarse (40–60 grit), medium (80–100 grit), and fine (120–240 grit).
3. Use coarse grade to remove rough finishes, medium grade to smooth the work, and fine grade to finish it off.
4. It is best to make a trial run on a scrap piece of material to determine the optimum grades of sandpaper for a particular job.

Switching on and off

1. To start the tool, first ensure the rubber disc, sanding disc and tool are in good condition. Plug the cordset into the mains socket.

2. To start the tool, depress the lock-off button (8) and squeeze the on/off trigger switch (7).

Note. Once the tool has started there is no need to maintain pressure on the lock-off button.



3. Do not overload the tool so that the disc slows down. Let the tool do the work rather than applying pressure. The weight of the tool alone provides sufficient pressure.
4. After completing the application, turn the sander off. To turn the tool off let go of the on/off trigger switch (7). The lock-off button (8) will re-engage. The tool will stop. (Please note that the disc continues to spin for a few seconds even though the switch is turned off). Keep hands well away from the moving disc. Wait until the disc stops rotating before lifting the grinder/sander/polisher from the surface.

Holding and guiding the tool

1. Always clamp the work piece where applicable.
2. Before starting the tool, first ensure the rubber disc, sanding disc and the tool are in good condition. Plug the cordset into the mains socket.
3. Do not overload the tool so that the disc slows down. Let the tool do the work rather than applying pressure. The weight of the tool alone provides sufficient pressure.
4. Hold the tool securely and make sure that you have full control at all times.
5. During the sanding operation, maintain an angle of 10–15 degrees between the tool and the work piece.

Operation in polisher mode

Prepare the surface

For best results, the surface should be clean and dry. Most high-gloss surfaces can be cleaned with a mild soap and water solution. For removal of stubborn dirt stains such as road tar, grease, and bug stains, you can use a mild ammonia solution such as that used in glass cleaners. Before using any cleaning product, check the label for recommended applications and follow the directions for use.

Never apply cleaner directly onto surface to be polished. Apply to a clean cloth and then use the cloth to clean the surface.

Do not use any type of abrasive cleanser as it may damage or scratch the surface.

Fitting the bonnets

1. Your GMC grinder/sander/polisher comes with a polishing bonnet. The polishing bonnet is used for buffing and finishing the surface.
2. To fit the polishing sponge, press and hold the spindle lock button (2) and screw the polishing sponge onto the spindle.
3. The polishing bonnet features a drawstring attachment to fit the bonnet over the polishing sponge.
4. Place the bonnet over the polishing sponge so that the outer edge can be drawn over the top of the disc.
5. Carefully tighten the drawstring around the polishing sponge and secure it with a simple overhand knot.
6. Tuck the drawstring into the bonnet.



7. Remove the bonnet by loosening the drawstring and slipping the bonnet off the polishing sponge.

Applying polish

Most polishes are either in paste or liquid form. Before using any polish read all directions on appropriate applications and proper use.

Switching on and off

1. To start the tool, first ensure the disc and tool are in good condition. Plug the cordset into the mains socket.
2. To start the tool, depress the lock-off button (8) and squeeze the on/off trigger switch (7).

Note. Once the tool has started there is no need to maintain pressure on the lock-off button.



3. Do not overload the tool so that the disc slows down. Let the tool do the work rather than applying pressure. The weight of the tool alone provides sufficient pressure.
4. After completing the application, turn the polisher off. To turn the tool off let go of the on/off trigger switch (7). The lock-off button (8) will re-engage. The tool will stop. (Please note that the disc continues to spin for a few seconds even though the switch is turned off). Keep hands well away from the moving disc. Wait until the disc stops rotating before lifting the grinder/sander/polisher from the surface.

Holding and guiding the tool

1. Always clamp the work piece where applicable.
2. Before starting the tool, first ensure the polishing

sponge, polishing bonnet and the tool are in good condition. Plug the cordset into the mains socket.

3. Do not overload the tool so that the disc slows down. Let the tool do the work rather than applying pressure. The weight of the tool alone provides sufficient pressure.
4. Hold the tool securely and make sure that you have full control at all times.
5. During the buffing operation, maintain an angle of 15–20 degrees between the tool and the work piece.

Replacing the rubber disc

Switch off the grinder/sander/polisher and disconnect it from the power supply.

1. The polishing sponge and rubber disc are fitted with a quick disc release system meaning that no tools are required. To remove the disc, press and hold the spindle lock button (2) and unscrew the disc from the spindle. Note that the disc unscrews in an anti-clockwise direction.



2. Remove the disc.
3. Check the new disc.
4. Fit the new disc onto the spindle and screw it on in a clockwise direction. Turn the new disc by hand, ensuring that it is tight on the spindle and that it rotates fully and does not wobble unduly.
5. Run the grinder/sander/polisher at no load for at least one minute to ensure the new disc is in good condition. Make sure you are wearing all the safety gear and that you face the polisher away from you.

Maintenance

All the bearings are sealed ball bearings, lubricated for life, and require no maintenance.

Power cord maintenance

If the supply cord needs replacing, the task must be carried out by the manufacturer, the manufacturer's agent, or an authorised service centre in order to avoid a safety hazard.

Cleaning

1. Keep the tool's air vents unclogged and clean at all times.
2. Remove dust and dirt regularly. Cleaning is best done with a rag. Wear safety goggles or an eye shield and gloves whilst cleaning.
3. Re-lubricate all moving parts at regular intervals.
4. Never use caustic agents to clean plastic parts.

CAUTION. Do not use cleaning agents to clean the plastic parts of the tool. A mild detergent on a damp cloth is recommended. Water must never come into contact with the tool.

General inspection

1. Regularly check that all the fixing screws are tight. They may vibrate loose over time.

Carefully read the entire *Instruction Manual* before using this product.

Before returning this product for a Warranty Claim or any other reason
Please Call 1300 880 001 (Australia)
or 0800 445 721 (New Zealand)

When you make your call, please have the following information at hand:

- **GMC Product Type**
- **GMC Product Code**

A GMC Service Engineer will take your call and, in most cases, will be able to solve your problem over the phone.

You are welcome to use this phone-in service to make suggestions or give comments about any GMC product.

With continuing product development changes may have occurred which render the product received slightly different to that shown in this instruction manual. The manufacturer reserves the right to change specifications without notice. Note: Specifications may differ from country to country.



The GMC 777 Helpline operates from 7am to 7pm, 7 days a week (EST). This allows you to contact GMC directly with any queries and technical questions you have regarding our products.

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Save this Manual for future reference.