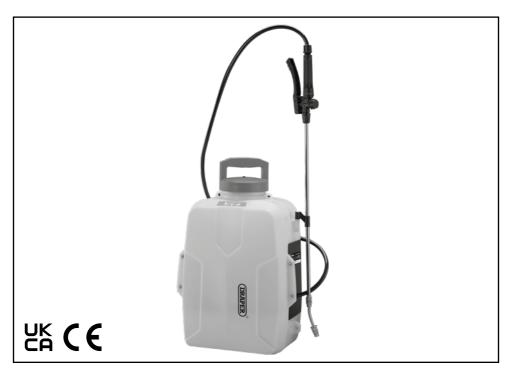




### 20V 12L

# BACKPACK SPRAYER

08096



These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

### TITLE PAGE

#### 1.1 INTRODUCTION:

**USER MANUAL FOR: 20V 12L Backpack Sprayer** 

Stock No: 08096 Part No: D20G/BS13L

#### 1.2 REVISIONS:

	TIE VIOIOITO.	
Date first published August 2021		
First revision October 2023		

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: http://drapertools.com/manuals

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#### 1.3 UNDERSTANDING THIS MANUAL'S SAFETY CONTENT:

**Warning!** – Information that draws attention to the risk of injury or death.

**Important** – Information that draws attention to the risk of damage to the product or surroundings.

### 1.4 COPYRIGHT © NOTICE:

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# 3. WARRANTY

### 3.1 WARRANTY

Draper power tools have been carefully tested & inspected and are guaranteed to be free from defective materials or workmanship.

For details of warranty and terms and conditions please visit the Draper Tools website at www.drapertools.com/warranty

# 4. INTRODUCTION

#### 4.1 SCOPE

For use with water, herbicides, pesticides and solvent-free preservative treatments. This product is suitable for enthusiasts and tradespersons alike. Any application other than that it was intended for, is considered misuse.

#### 4.2 SPECIFICATION

Stock no	
Part no	D20G/BS13L
Rated voltage	20V
	50.75PSI/72.5PSI
Liquid Flow	1.2L per minute
Max. spray distance	7.6m
	12L
Running time	110 minutes with 2.0Ah battery pack

#### 4.3 HANDLING AND STORAGE

Care must still be taken when handling and lifting. Dropping this machine will have an effect on the accuracy and may also result in personal injury. This machine is not a toy and must be respected.

The environment will have a negative result on its operation if you are not careful. If the air is damp, components will rust. If the machine is unprotected from dust and debris; components will become clogged: And if not cleaned and maintained correctly or regularly the machine will not perform at its best.

# 5. HEALTH AND SAFETY INFORMATION

#### 5.1 GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE

Warning! Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tools" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

- 1) Work area safety
  - a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.
  - b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
  - Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- 2) Electrical safety
  - a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
  - b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
  - c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
  - d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
  - e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
  - f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.
- 3) Personal safety
  - a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
  - b) Use personal protective equipment Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection use for appropriate conditions will reduce personal injuries.
  - c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
  - d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
  - e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
  - f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

### HEALTH AND SAFETY INFORMATION

- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

#### 4) Power tool use and care

- a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e) Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- h) Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

#### 5) Service

 a) Have your power tool serviced by a qualified repair person using only identical replacements parts. This will ensure that the safety of the power tool is maintained.

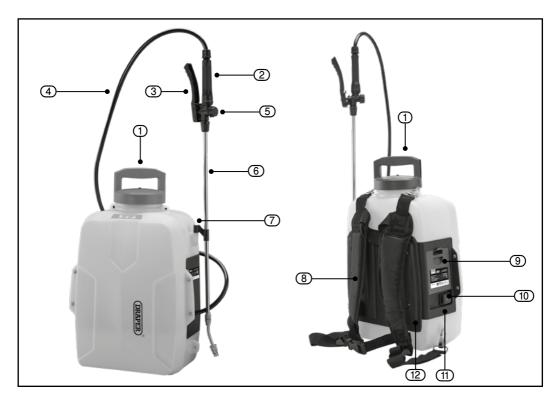
# 5. HEALTH AND SAFETY INFORMATION

#### Important safety instructions for battery cartridge

- a) Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
- b) Do not disassemble battery cartridge.
- c) If operating time has become excessively shorter, stop operating immediately. It may result in a risk of over-heating, possible burns and even an explosion.
- d) If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
- e) Do not short the battery cartridge:
  - a) Do not touch the terminals with any conductive material.
  - b) Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
  - c) Do not expose battery cartridge to water or rain.
  - A battery short can cause a large current flow, over-heating, possible burns and even a breakdown.
- f) Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50°C (122°F).
- g) Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
- h) Be careful not to drop or strike battery.
- Do not use a damaged battery.
- j) The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.
  - For commercial transports e.g. by third parties, forwarding agents, special requirement on packaging and labelling must be observed.
  - For preparation of the item being shipped, consulting an expert for hazardous material is required.
  - Please also observe possibly more detailed national regulations.
  - Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.
- k) Follow your local regulations relating to disposal of battery.

# 6. TECHNICAL DESCRIPTION

### **6.1 IDENTIFICATION**



- 1 Tank Cover
- (2) Handle of Sprayer Gun
- (3) Switch Trigger
- (4) Hose
- (5) Locking Hook
- (6) Plastic Lance
- (7) Hang Hook

- (8) Backpack Belt
- (9) Battery Pack Cartridge
- (10) ON/OFF Switch
- (11) Battery Volume Indicator
- (12) Backpack Cushion
- (13) Tank

### 7. UNPACKING AND CHECKING

#### 7.1 PACKAGING

Carefully remove the product from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. If any part is damaged or missing, please contact the Draper Help Line (the telephone number appears on the Title page) and do not attempt to use the product.

The packaging material should be retained at least during the warranty period, in case the machine needs to be returned for repair.

#### Warning!

- Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.
- If any of the packaging is to be thrown away, make sure they are disposed of correctly, according to local regulations.

#### 7.2 WHAT'S IN THE BOX

As well as the main product, there are several parts not fitted or attached to it.



Note: For details of our full range of accessories and consumables, please visit drapertools.com

(14) Adjustable Spray Heads

# 8. PREPARING THE BACKPACK SPRAYER

# 8.1 MOUNTING THE PLASTIC SPRAY HEAD AND SPRAY LANCE - Figs 1, 2 & 3

- The machine has four different spray heads supplied in the accessories.
- To mount the spray head onto the lance, align the axis of spray head and lance, slide the nut onto the thread coupling and hand tighten securely. Do not over tighten.
- To mount the spray lance onto the switch trigger handle insert the spray lance into the switch trigger handle, then slide the nut onto the thread coupling and hand tighten securely.



FIG.1



FIG.2

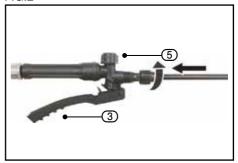


FIG.3

### 8. PREPARING THE BACKPACK SPRAYER

# 8.2 MOUNTING AND ADJUST THE METAL SPRAY LANCE - FIGS. 4 & 5

- To mount the metal spray lance, align the axis of spray lance and spray handle, then turn the middle screw of the clockwise and fasten. (see fig. 4)
- The metal spray lance is a telescopic one, which can be extended up to 1m long.
- To adjust the length, just do as follows (see fig. 5):
  - Loosen the middle screw nut.
  - Grasp the head then pull it outer forward
  - After get your desired length, turn the middle screw to fasten it.

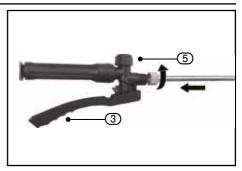


FIG.4



FIG.5

#### 8.3 ATTACHING THE HOSE

The hose comes preassembled to the trigger handle. If it becomes loose, follow the instructions below.

- Slide the nut on the hose away from the hose end.
- Following this rule will reduce the risk of serious personal injury.
- Insert the hose end into the hose connector. Make sure the connection is secure.
- Slide the nut over the opening and hose end. Hand tighten. Do not over tighten.

# 8. PREPARING THE BACKPACK SPRAYER

# 8.4 MOUNTING AND ADJUSTING THE BACKPACK STRAP – FIGS. 6, 7,8

- Mounting the strap onto the tank via four metal hooks on the strap. See fig.6.
- The strap can be adjusted according the different people's body. If you feel too tighten, it can be adjusted by loosen the belt to extend and then fasten. See fig.7.
- After adjustment, the strap can be further secured by a breast buckle. See fig.8.



FIG.6



FIG.7



FIG.8

# 9. OPERATION

#### 9.1 FILLING THE TANK - FIGS. 9 & 10

#### WARNING

- Before filling the tank, always remove the battery pack and ensure the battery cover is closed. Wipe up any spills before inserting the battery pack. Following this rule will reduce the risk of electric shock and corrosive liquids entering the battery pack, which can cause battery pack failure including short circuit resulting in smoke, fire, and/or serious personal injury.
- Always follow the chemical manufacturer instructions printed on their product labeling for use, cleaning, and storage. Clean thoroughly after each use, following the instructions in the Maintenance section of this manual. Chemicals should be stored out of the reach of children. Failure to do so may result in serious personal injury.
- Do not allow conductive or corrosive fluids to get inside the battery pack. If conductive or corrosive fluids are spilled on the battery, refer to the instructions in your battery operators manual.
- Liquids to be sprayed must be as thin as water.
   Thicker liquids will not spray properly.
- Do not overfill the tank.



FIG.9



**FIG.10** 

#### NOTE:

A removable strainer prevents debris that can clog or damage the pump from entering the tank. It may be removed when using a funnel or for cleaning. Always reinsert strainer before re-installing cap.

- Remove the battery pack (if necessary).
- Unscrew the cap and remove it from the tank (see fig.9).
- Fill the tank with the desired amount of water (up to 12 liters).
- Measure the recommended amount of liquid.
- Carefully pour the liquid into the tank (see fig.10).
- Rinse the measuring container with clean water.
- Screw the cap back onto the sprayer, making sure it is tightened securely.
- Re-install the battery pack.
- Spray solutions may be premixed and poured into the sprayer, using a funnel if needed.

# 9. OPERATION

# 9.2 MOUNTING THE BATTERY PACK – FIGS. 11 & 12

#### **CAUTION**

Before mounting the battery pack, make sure the tank is clean and dry especially on the battery cover and battery cartridge. If needed, wipe off any dirt or spilled water.

- Press the clip on the battery cartridge cover and pull outside (fig.11).
- Insert the battery pack into the battery cartridge, shown in fig.12. After hearing a click sound, it means the battery pack is secured.



FIG.11



**FIG.12** 



**FIG.13** 



FIG.14

# 9.3 TURNING THE SPRAYER ON/OFF – FIG. 13

- The sprayer was constructed as two stage main switch, I stage is lower pressure and the II stage is high pressure.
- To switching on, just press the switch button on I or II position.
- To switching off, just press the switch button on "o" position.

# 9.4 BATTERY VOLUME INDICATOR - FIG.14

- The sprayer has a battery volume indicator feature. After turn on the sprayer, the three indicator light will on.
- If the battery pack is full, the three light will all on. If the battery pack is empty, the light remains only one light. Please double check the battery pack volume. If necessary, change a new one immediately.

### OPERATION

# 9.5 LOCKING ON THE HANDLE TRIGGER – FIG. 15

- The lock-on feature is convenient when spraying for an extended period of time or when covering a large area.
- To lock-on, squeeze the trigger and slide the locking tab forward to hook it up.
- To release the lock-on, squeeze the trigger and slide the locking tab backward to release the hook.

**NOTE:** Make sure the trigger is not locked on before inserting the battery pack into the sprayer.



For the cone spray head can be adjusted from a stream to a cone spray.

- Remove the battery pack from the tool.
- Loosen the head for a stream.
- Tighten the nozzle for a fan spray.
- For the metal spray head of the metal lance, the spray can be adjusted from stream to full.
- Remove the battery pack from the tool.
- Loosen the head for a water stream.
- Tighten the nozzle for a stream.

# 9.7 SPRAYING HOME AND GARDEN CHEMICALS – FIG. 17

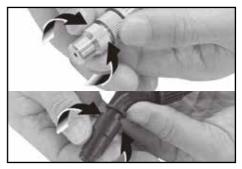
- Install the battery pack into the tool.
- Depress the ON/OFF switch button to start the motor.
- Aim the sprayer head directly at the plants or objects you wish to spray.

**NOTE:** Make sure to stand far enough from the object being sprayed to prevent the spray from splashing back onto you.

- Squeeze the trigger to start the spray.
- Release the trigger to stop the spray.
- Always empty, clean, and drain the tank after every use as directed in the Maintenance section.
- Thoroughly clean the chemical sprayer before storing or before switching to a different chemical.
- When you are finished with the sprayer, thoroughly wash your hands and any area where skin has been exposed to the spray.



**FIG.15** 



**FIG.16** 

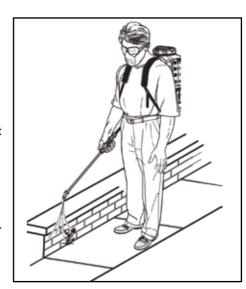


FIG 17

# 10. MAINTENANCE AND TROUBLESHOOTING

#### **10.1 WARNING**

- To avoid serious personal injury, always remove the battery pack from the tool when cleaning or performing any maintenance.
- When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.

**NOTE:** Periodically inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc. Tighten securely all fasteners and caps and do not operate this product until all missing or damaged parts are replaced. Please contact customer service or a qualified service center for assistance.

#### **10.2 OPERATING TIPS**

- Never point the spray end of the lance at yourself or others.
- Avoid spraying on windy days. Spray can be accidentally blown onto plants or objects that should not be sprayed.
- Never spray in the direction of people or animals; always spray downwind.
- Especially in warmer weather, spray in the early morning or late afternoon. Excessive heat can evaporate the spray before it settles.
- Never smoke, eat, or drink while operating the sprayer.

# 10. MAINTENANCE AND TROUBLESHOOTING

#### 10.3 GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

#### **WARNING:**

Do not at any time let brake fluids, gasoline, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic which may result in serious personal injury.

#### 10.4 DRAINING THE TANK

If there is any liquid left in the tank after spraying, the tank should be drained before cleaning.

- Remove the battery pack.
- Unscrew the cap and remove it from the tank.
- Remove the the strainer from the tank.

**NOTE:** Drain the contents back into the original container. Do not store chemicals in the tank.

#### 10.5 CLEANING THE TANK AND SPRAY LANCE ASSEMBLY

If there is any liquid left in the tank after spraying, the tank should be drained before cleaning.

- Remove the battery pack.
- Unscrew the cap and remove it from the tank.
- Remove the the strainer from the tank.

NOTE: Drain the contents back into the original container. Do not store chemicals in the tank.

# 10. MAINTENANCE AND TROUBLESHOOTING

#### 10.6 CLEANING THE SPRAY HEADS

If the nozzle becomes plugged, use the steps below to clear.

- Remove the battery pack.
- Unscrew and remove the spray head from the spray lance.
- Push a small wire through the cross holes to clear any debris. If necessary, rinse the cross holes and nozzle with clean water.
- Wipe the nozzle and cross holes with a clean dry cloth and re-install the nozzle.

#### 10.7 REPLACING SEALS

**WARNING:** Always follow procedures for draining and cleaning the tank before replacing the seals. Make sure you wear rubber gloves when reaching into the chemical tank. Wash your hands thoroughly afterwards. Failure to follow these instructions can result in a rash, skin irritation, or other serious personal injury if you directly contact some chemicals.

Over time, seals can harden and crack, which can allow the chemical sprayer to leak. A set of replacement seals is included. Refer to the image shown for the location of each of the seals, then replace as needed to address any leaks that develop.

**NOTE:** Threading the connections to replace the seals could allow liquid to escape, so always clean the chemical sprayer thoroughly as previously described before replacing the seals.

# 10.8 STAORE THE SPRAYER - FIG 18

After cleaning, store the sprayer in a dry place, do not put the sprayer in the sun.

The sprayer lance can be put on the hang hook, or put on the tank cap. See fig. 14.



**FIG.18** 

# 11. EXPLANATION OF SYMBOLS

#### 11.1 EXPLANATION OF SYMBOLS



Never open the pump when under pressure.



Do not spray on windy days.



Do not leave the sprayer exposed to heat sources or intense cold.



Wash hands and face after use.



Do not use for spraying food products (wine, milk, etc.).



Do not leave pump within the reach of children.



Do not spray toxic or harmful liquids on persons, animals or foodstuffs



Keep bystanders away whilst using the sprayer.





Use suitable protection equipment during use.



**NOTE:** After use, rinse the container then operate the pump with clean water to completely empty the container and piston.

# 12. DISPOSAL

#### 12.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

#### In all circumstances:

- · Do not dispose of power tools with domestic waste.
- · Do not incinerate.
- Do not dispose of WEEE\* as unsorted municipal waste.



<sup>\*</sup> Waste Electrical & Electronic Equipment.

# **CONTACTS**

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Service/Warranty Repair Agent:

For aftersales servicing or warranty repairs, please contact the Draper Tools Help Line for details of an agent in your local area.

YOUR DRAPER STOCKIST					

TATL1023

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