

EN

Original Instructions
Version 1



20V

PRESSURE WASHER

18100/97533



D20
MULTI-TOOL BATTERY SYSTEM

BARE UNIT
Batteries, Charger &
Bucket sold separately

UK
CA CE

These are the original product instructions. Please read the instructions carefully and note the Health and Safety warnings and cautions. Retain for future reference.

Please visit drapertools.com/manuals for the latest version of this manual and the associated parts list, if applicable.

1.1 Product Reference

User Manual for: 20V Pressure Washer

Stock No: 97533 (EU 91912), 18100



Part No: D20PW16BARKIT, D20PW16BAR

1.2 Revisions

Version 1: March 2024

First release

1.3 Understanding the Safety Content of This Manual

-  **WARNING!** – Situations or actions that may result in personal injury or death.
-  **CAUTION!** – Situations or actions that may result in damage to the product or surroundings.
- Important:** – Information or instructions of particular importance.

2. Contents

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3. Product Introduction

3.1 Intended Use

This product is designed as a portable pressure washer to clean vehicles, machinery and outside property.

This product is intended for domestic and infrequent light-duty trade use. Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

3.2 Specification

Stock No.	18100/97533
Part No.	D20PW16BAR/D20PW16BARKIT
Rated voltage:	20V
Working pressure:	0 – 16 Bar (230 PSI)
Max flow rate:	120L/hour
Type of protection:	IPX5
Sound pressure level:	<70dB
Sound power level:	<80dB
Vibration level:	<2.5m/S²
Net weight (appliance only):	1.5kg

Battery Pack (18100 sold separately)

Stock No.	55887
Part No.	D20B2.0AH
Type:	Li-Ion
Rated voltage:	20V/2.0Ah

Battery Charger (18100 sold separately)

Stock No.	55913
Part No.	D20BCF
Rated voltage:	230V
Rated frequency:	50Hz
Rated DC output voltage:	20V
Rated DC output current:	4A
Protective device rated current:	8A
Construction:	Class II

Important: Read all the Health and Safety instructions before attempting to operate, maintain or repair this product and retain for future reference. Failure to follow these instructions may result in injury or damage to the user, the product or the item being cleaned.

4.1 General Health & Safety Information

- Keep the work area clean and well lit.
- **NOTE:** This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- Local regulations may restrict the age of the operator.
- Keep children and bystanders away while operating this washer.
- Use appropriate personal protective equipment. **ALWAYS** wear eye protection.
- Store the pressure washer out of the reach of children.
- The appliance should only be serviced by a qualified repair person using identical replacement parts.

4.2 Specific Safety Instructions for Pressure Washer Use



WARNING! This appliance is for outdoor use only.



WARNING! Disconnect the battery before changing accessories, servicing or performing any maintenance.



WARNING! Keep all connections tight and in good working order.

- To prevent unintentional starting always activate the safety catch (2) after use and when storing the tool.
- Never use the appliance if important parts of the appliance are damaged, e.g. safety devices, high pressure hose, gun, etc.
- This appliance has been designed for use with a neutral shampoo based on biodegradable anionic surface-active detergents. The use of other detergents or chemicals may damage the appliance.
- Never use the appliance with people in the vicinity unless they are wearing protective clothing.

- Do not direct the nozzle toward mechanical parts containing lubricant grease, as the grease will dissolve and spread over the surrounding ground.
- Vehicle tyres/tyre valves may only be cleaned from a minimum distance of 30cm, otherwise the vehicle tyre/tyre valve could be damaged by the high-pressure jet. The first indication of this is a discolouration of the tyre. Damaged vehicle tyres/tyre valves can be dangerous.
- High pressure jets may be dangerous if improperly used. Jets must never be pointed at people, animals, live electrical equipment or the appliance itself.
- The accessories and high-pressure couplings are important for the appliance's safety. Use only accessories and couplings recommended (it is extremely important to protect these components against damage by avoiding their improper use and protecting them against bending, knocks and scratches).



WARNING! The pressure washer must only be used with clean water. Salt water, non-filtered water or corrosive chemicals must not be used as they will damage the cleaner.

- Release residual pressure before disconnecting hose.

4.3 Safety Instructions for Mains Powered Chargers & Battery Packs

- The charger is for indoor use only. **DO NOT** expose to rain.
- Only use the correct recommended Draper charger and corresponding battery pack with this product. Visit the Draper website for more information on the range of chargers and batteries available for use with this product.
- Do not charge any other batteries with the Draper chargers. Any other application is considered misuse.
- Before charging the product refer to the instructions supplied with the charger and battery for correct operation and suitability for use with this product.
- Prior to plugging the charger in to the supply, check that the plug, cord and charger casing are in good condition. If any are damaged, have the defective part(s) replaced immediately by a suitably qualified person.
- Only use a correctly rated mains outlet to provide power, do not plug into site generators, attach to engine generators or D.C. sources. Do not use a mains socket outlet that is not switched.

- Do not attempt to charge battery packs that are too hot (over 30°C) or too cold (under 5°C), if these conditions apply set the battery pack aside to "normalise" before proceeding with the charging operation.
- Set up the charger and cord in a safe place where it will not be knocked, tripped over, stepped on, etc. and where it is well ventilated. Make sure the ventilation slots in the charger case are not obstructed.
- Inspect the battery pack for damage before plugging into the charger, ensuring the correct orientation.
- Switch the charger on and check that the correct indicators illuminate, allow the battery pack to charge (see the specific instructions for your charger). Once charging is complete, switch the charger off, disconnect from power supply, remove the battery pack and store.

4.4 Battery packs

- Before charging, read the instructions.
- Do not expose to rain.
- Only use Draper D20 battery packs with this product.
- Do not charge any other batteries with Draper chargers. Any other application is considered misuse.
- The charger must be disconnected from the power supply before removing the battery.
- The battery must be removed from the appliance before it is recycled.
- The battery is to be disposed of in-line with local authority procedures.
- Do not crush, open or burn the battery. Exposure to potentially harmful materials may occur.
- In case of fire use CO2 or dry chemical extinguisher.
- Do not expose to high temperatures >50°C. The battery may degrade at high temperatures.
- Charge battery in conditions between 5°C to 30°C with the designated charger for the battery.
- Do not use battery if it has been stored at 5°C or less. Allow it to "normalise" at room temperature before usage/charging.



Warning! – Leaking battery packs

- The electrolyte in battery packs is corrosive. Avoid contact with the skin – If contact is made, flush the


area with clean water, pat dry and seek medical attention at the earliest opportunity.

- Inform medical personnel that the contaminant is a "high alkaline, corrosive liquid".
- If electrolyte comes into contact with the eyes, flush with of water only. Seek immediate medical attention, relaying the information above.

4.5 Connection to the power supply (charger)



Caution: Risk of electric shock. Do not open.


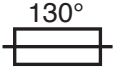












- This appliance is supplied with an approved plug and cord for your safety. Never use a damaged or incomplete plug.
- If the power supply cord is damaged, it must be replaced by Draper Tools, an authorised service agent or similarly qualified personnel in order to avoid a hazard.
- This appliance is Class II† and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.
- If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow all the instructions supplied with the extension lead. Ensure that the extension lead is fully unwound.
- Keep extension leads away from moving hazardous parts to avoid damages to the cord which can lead to contact with live parts. Position cord safely to avoid tripping over.
- †Double insulated  : This product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.

4.6 Residual Risk

- The safety instructions in this manual cannot account for all possible conditions and situations that may occur. Exercise common sense and caution when using this product and protect against any additional conceivable risks.

4.7 Explanation of symbols

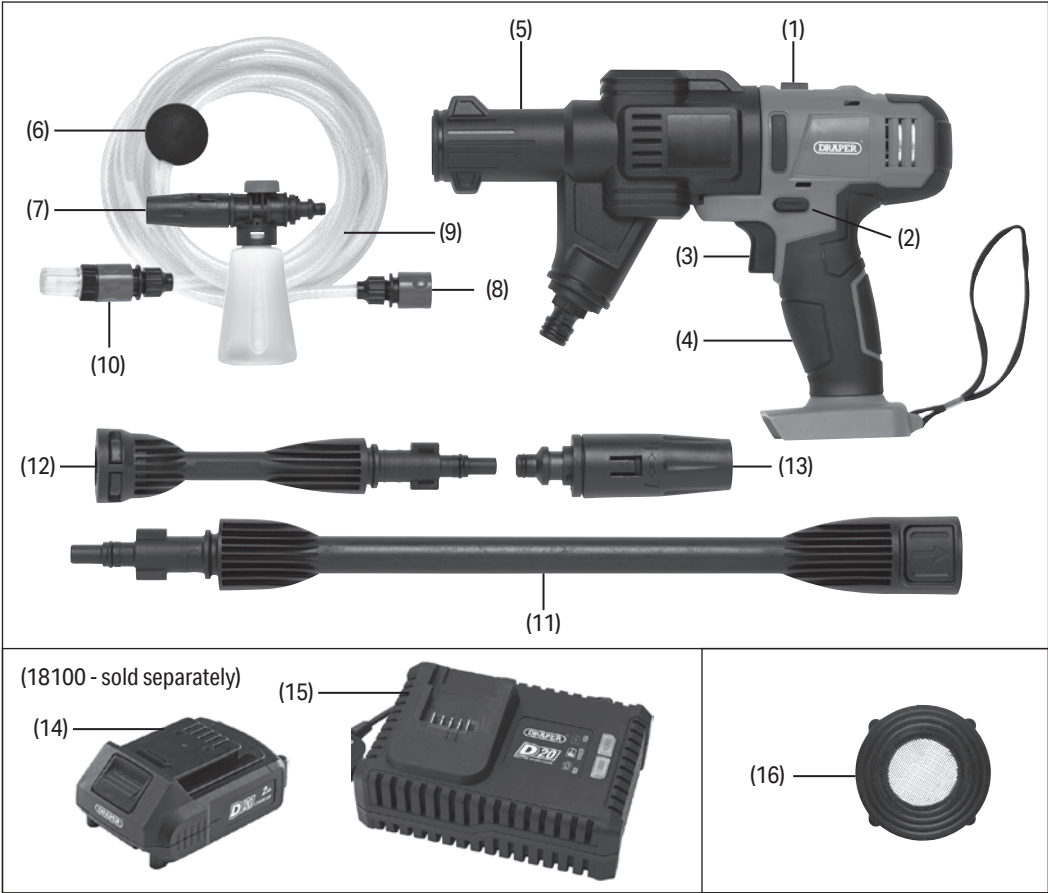
Battery Pack/Charger

	Read the instruction manual		Fuse protective device
	Wear face mask and safety glasses		Polarity indication
	Keep out of the reach of children		Direct current
	Warning!		Class II construction (Double insulated)
	European conformity		WEEE – Waste Electrical & Electronic Equipment Do not dispose of Waste Electrical & Electronic Equipment in with domestic rubbish
	UK Conformity Assessed		Do not incinerate or throw onto fire
			For indoor use only; do not expose to rain
			Lithium-ion product

5.1 Product Overview

Carefully remove the product from the packaging and examine it for any signs of damage that may have occurred during shipment.

Before assembling the product, lay the contents out and check them against the parts shown below. If any part is damaged or missing, do not attempt to use the product. Please contact the Draper Helpline; contact details can be found at the back of this manual.



- | | |
|-----------------------------|---|
| (1) Lock and release switch | (9) 6M suction hose |
| (2) Safety catch button | (10) Hose filter |
| (3) ON/OFF trigger | (11) Long lance |
| (4) Soft grip | (12) Short lance |
| (5) Power nozzle | (13) Variable spray pattern nozzle |
| (6) Float | (14) 2.0Ah Li-ion battery (sold separately for 18100) |
| (7) Detergent bottle | (15) D20 fast battery charger (sold separately for 18100) |
| (8) Hose connector | (16) 1 X Spare filter for gun connector |

5. Identification and Unpacking

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5.2 Packaging

Keep the product packaging for the duration of the warranty period in case the product needs to be returned for repair.



WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.

6. Battery Pack Charging

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Important! Only use Draper designated battery packs and chargers with this product. Use of any other third-party battery packs/chargers is considered misuse and will invalidate the warranty. Once connected to the mains supply, recharging of the battery can be left generally unsupervised.



Warning! Check the condition of the charger and battery prior to each charge. Do not use if there is any sign of damage. The battery pack must be charged before initial use.

6.1 To charge the battery pack: - Fig. 1.

1. Plug the battery charger (15) unit into a suitable mains power supply socket. The red LED (15.1) will illuminate to show the charger has power.
 2. Slide the battery (14) into the charger (the battery is designed to fit into the charger only one way).
- Whilst the battery is charging, the red LED on the charger will remain on and the green LED (15.2) will flash.
 - When the battery is fully charged the green LED stops flashing and changes to solid green. The red LED will turn off.



Caution: Only use the plug to disconnect from the power supply, never use the cord.



Caution: If the battery charger has been in continuous use it will be hot. Once charging is completed, leave the charger to cool. Only charge cooled batteries.

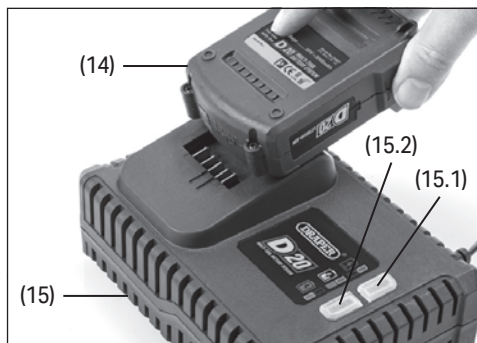


Fig. 1

6.2 Battery Pack Protection Features

- **Overcharging protection:** When the battery pack is fully charged, the charger will automatically shut off, protecting the internal components.
- **Over-discharging protection:** Stops the battery pack from discharging beyond the recommended lowest safety voltage.
- **Overheating protection:** An internal thermistor cut-off sensor shuts off the battery pack should it become too hot during operation. Allow to cool for 30 minutes before using.
- **Current protection:** If the battery is overloaded or the maximum current draw exceeded, the battery will shut off to protect internal components. The battery pack will resume operation once the current draw is at a safe level.
- **Short circuit protection:** The battery pack will stop operating immediately if it short circuits.

Please visit drapertools.com for our full range of accessories and consumables.

6. Battery Pack Charging

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6.3 Battery Pack Charge Status - Fig. 2.

- To check the battery charge status press the charge level indicator button (14.2).

0 – 10%	0 – 25%	25 – 50%
50 – 75%	75 – 100%	

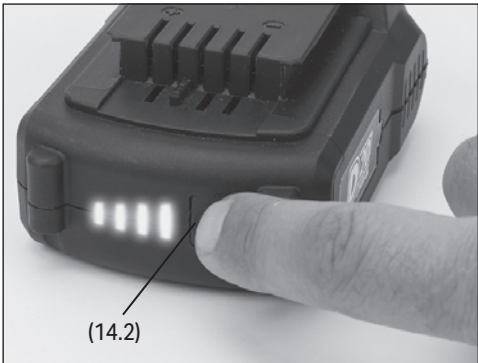


Fig. 2

7. Preparing the Pressure Washer

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7.1 Pressure Washer Assembly - Fig. 3.

1. Attach either the long (11) or short (12) lance to the power nozzle (5) – ensuring that the 2 notches on the lance are aligned with the grooves inside the power nozzle.

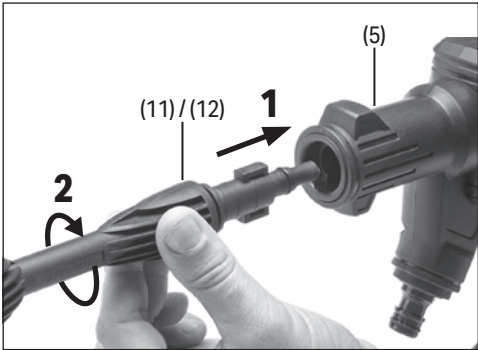


Fig. 3

2. Attach the variable spray nozzle (13) to the end of the lance – Fig. 4.

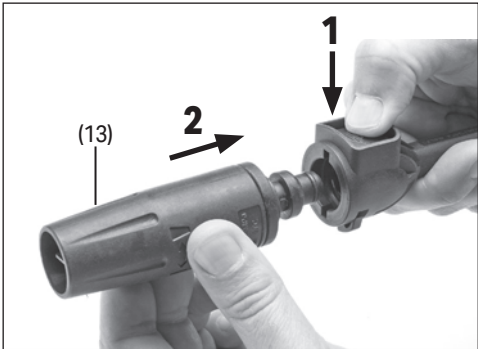


Fig. 4

7. Preparing the Pressure Washer

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3. Connect the hose (8) to the power nozzle (5) .
Check the connection is secure by gently pulling the hose. - Fig. 5 & 6.

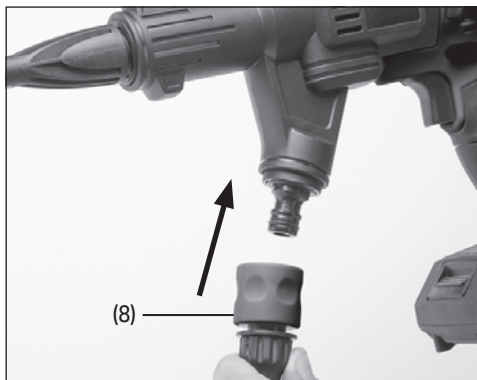


Fig. 5

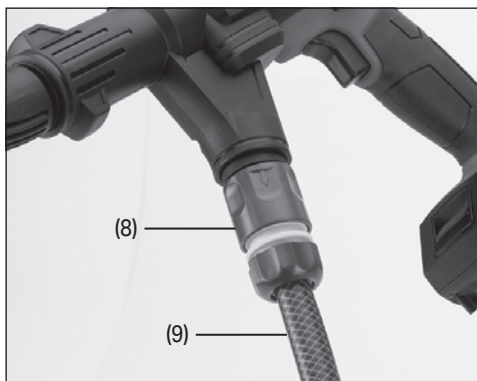


Fig. 6

4. Place the filter (10) end of the hose into a bucket or other clean water source. - Fig. 7.
- Note: This appliance is not suitable for connecting to a tap.

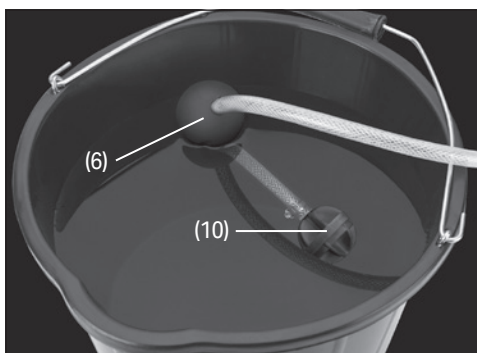


Fig. 7

Important: Before operating this product, read and understand all the safety instructions listed in this manual. Ensure that the product is fully assembled and correctly prepared for use.

8.1 Battery Fitting - Fig. 8A.

- Slide the battery pack (14) onto the base of the handle.

To release the battery pack: - Fig. 8B.

- Press the battery release button (14.1) and gently slide the battery pack off.



Fig. 8A

8.2 Removing the air from the hose - Fig. 9.

1. Before using the pressure washer remove the air from the hose. Position the power nozzle below waist height (<5ft/1.5m) and attach the long lance and variable spray nozzle.
2. Turn the nozzle to high pressure and hold the trigger (3) on until water sprays out of the end of the hose. Depending on the water source this could take up to 30 seconds.



Fig. 8B

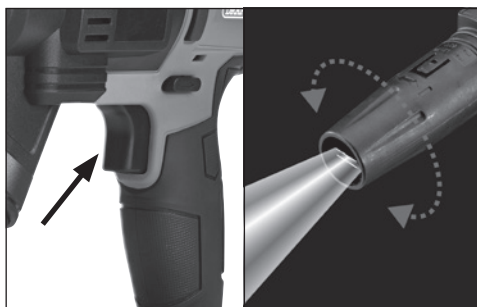


Fig. 9

8.3 Selecting the Nozzle Pattern - Fig. 10.

- Select a suitable nozzle pattern by turning the nozzle (13).
- **DO NOT** change the nozzle pattern when the pressure washer is switched on.

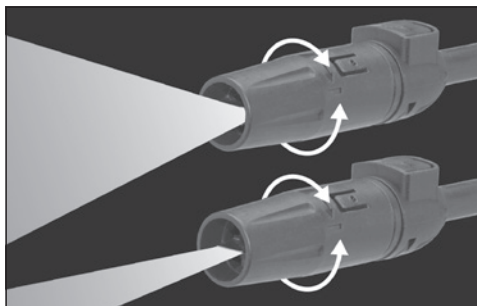


Fig. 10

8.4 Detergent bottle - Fig. 11.

- Use the detergent bottle (7) for deeper cleaning.
- Use with either the long or short lance.

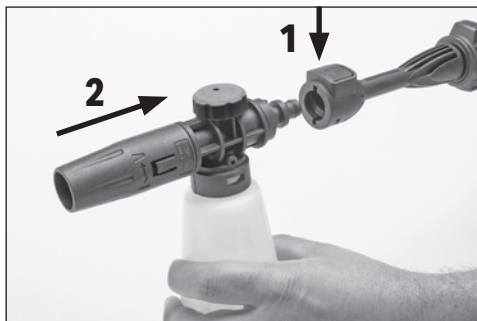


Fig. 11

8.5 Safety Catch Button - Fig. 12.

- The pressure washer gun is fitted with a safety catch to prevent accidentally operation. It will **NOT** lock the trigger during operation.
- When the pressure washer is not being operated, press the safety button (2) to lock the trigger in the 'OFF' position. To release, press the button again.



Fig. 12

Important: Remove the battery pack from the tool before carrying out any adjustment, servicing or maintenance. Inspect the product for damaged or worn parts before each use.

Do not operate it if you find damaged or worn parts.

9.1 Hose Filter Cleaning - Fig.13 - Fig.14.

- Clean the filter regularly to prevent clogging and poor water flow.
- Remove the filter (10) from the hose and unscrew the clear section (10.2) from the connector (10.1).
- Pull out the strainer (10.3) and rinse the parts with clean water.
- Reassemble and fit back to the end of the hose – the black 'O' ring should be positioned at the open end.

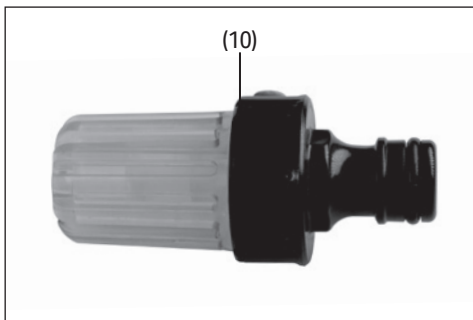


Fig. 13

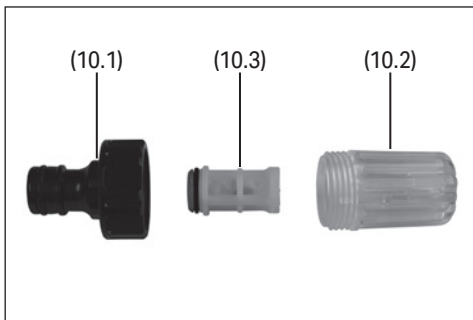


Fig. 14

9.2 Gun Connector Filter Cleaning/ Replacement - Fig. 15.

- To replace the filter (16) unscrew the power nozzle connector and remove the old filter and clean. If the filter is damaged and requires replacement a spare one is supplied in pack.

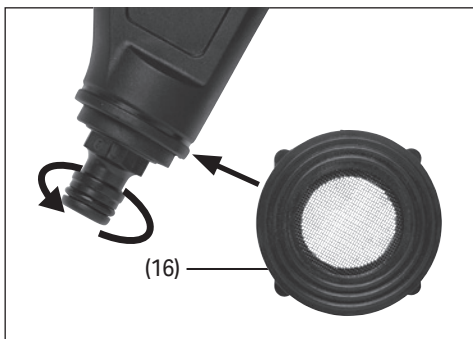


Fig. 15

9.3 General Maintenance - Fig.16. - Fig.17.

- Clean the moulded plastic housing of the machine using a soft brush and clean cloth. Do not use water, solvents or abrasives.
- Push the lock and release lever (1) to the unlock position to separate the handle from the power nozzle for maintenance and cleaning.



Fig. 16



Fig. 17

9.4 Storage

- Before storage, completely drain all the water from the lances and hose.
- Store in a secure, frost free and dry place out of the reach of children.

9.5 Troubleshooting

Problem	Possible cause	Remedy
Washer does not operate or runs slowly.	Battery pack not charged.	Recharge battery.
	Battery pack faulty or damaged.	Replace battery pack.
Low water output.	Filters clogged.	Clean filters – refer to section 9.1 and 9.2. Always use clean water
	Air in hose.	Empty the air from the hose – refer to section 8.2.
No water spray from nozzles.	Hose connector is leaking.	Check hose connected to gun correctly.
	Hose not submerged in water.	Submerge water filter connector in water completely.

10. Spares, Returns and Disposal

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For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

10.1 Battery Pack Disposal Information



Warning!

- **DO NOT** burn or mutilate batteries; this may release toxic or corrosive substances.



- Do not short circuit cells, may cause burns.
- **ALWAYS** remove the battery from the tool before recycling and dispose of it in accordance with local regulations.
- Do not dispose of batteries or cells in a charged condition.



Li-ion

* Waste Electrical & Electrical Equipment

11. Warranty

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Draper Tools products are guaranteed for 24 months -
For more information visit drapertools.com/warranty.

Contact Details

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