

DRAPER

EN

Original Instructions
Version 2
July 2025

165/195 BAR

PRESSURE WASHER



98678



98679

UK
CA CE

1. Preface

1.1 Product Reference

User Manual for: 165/195 Bar Pressure Washer

Stock No: 98678, 98679

Part No: PW2100I/110D, PW2500I/135D

1.2 Revisions

Version 1: October 2020

First release

Version 2: July 2025

As our manuals are continually updated, always ensure that the latest version is used.

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

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.

1.4 Copyright © Notice

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3.1 Intended Use

This portable pressure washer is designed to wash and clean vehicles, bikes and other outdoor equipment or garden patios, greenhouses and other similar applications.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

3.2 Specification

Stock No.	98678	98679
Part No.	PW2100I/110D	PW2500I/135D
Rated voltage:	230V/50Hz	230V/50Hz
Rated input:	2100W	2500W
Working pump pressure (+/- 10%):	1595psi (110bar)	1885psi (130bar)
Max. pump pressure:	2393psi (165bar)	2828psi (195bar)
Max. flow rate:	7.2L/min (432L/hour)	8L/min (480L/hour)
Working flow rate (+/- 10%):	6L/min	6.7L/min
Type of protection:	IPX5	IPX5
Max. water feed temperature:	50°C	50°C

Noise emissions:

Sound pressure level (LpA):	79dB (A)	81dB (A)
Sound power level (LWA):	96dB (A)	97dB (A)
Uncertainty (K):	3dB (A)	3dB (A)

Vibration level:

Uncertainty (K)	2.929m/s2	2.77m/s2
	1.5m/s2	1.5m/s2
Hose length (approx.):	6M	8M
Cord length (approx.):	5M	5M
Net weight (machine and accessories):	18kg	25kg

Important: The declared vibration total values and noise emissions values have been measured in accordance with a standard test method and may be used for comparing one tool with another. These values may also be used in a preliminary assessment of exposure.



WARNING! The vibration and noise emissions during actual use of the product can differ from the declared values depending on the type of work and the area upon which it is used. Before each use, estimate the likely exposure resulting from the actual conditions of use. Take into account all parts of the operation cycle in order to identify any safety measures required to protect the operator.

4. Health and Safety Information

Important: Read all the Health and Safety instructions before attempting to operate, maintain or repair this product. Failure to follow these instructions may result in injury or damage to the user, the product or the workpiece.

4.1 General Health and Safety Precautions



WARNING!

- **DO NOT** use the appliance if the supply cord or important parts are damaged, e.g. safety devices, high pressure hoses, trigger gun etc.
- If an extension cord is used, it shall be suitable for outdoor use, and the connection has to be kept dry and off the ground. It is recommended that this is accomplished by means of a cord reel which keeps the socket at least 60 mm above the ground.
- **ALWAYS** switch off completely when leaving the appliance unattended.
- 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 adversely affect the safety of the appliance.
- **DO NOT** use the appliance within range of persons unless they wear protective clothing.
- **NEVER** point the jet at yourself or others to clean clothing or footwear.
- High pressure jets may be dangerous if subject to misuse. Jets must not be directed at persons, animals, live electrical equipment or the appliance itself.
- The hoses, accessories and high-pressure couplings are essential for the appliance's safety. Use only hoses, accessories and couplings recommended. Protect these components against damage by avoiding their improper use and protecting them against bending, knocks and scratches.
- **NEVER** allow children or untrained people to use the appliance.
- This appliance is for outdoors use only.
- **ALWAYS** disconnect the electricity and water supplies on completion of every job.
- **ALWAYS** wear appropriate PPE (personal protective equipment) when using the pressure washer.
- **DO NOT** direct the nozzle toward mechanical parts containing lubricant grease, as the grease will dissolve and spread over the surrounding ground.
- **DO NOT** direct the nozzle towards window seals as they may be damaged.
- 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.
- The safety button on the trigger assembly is to prevent accidental operation and will **NOT** lock the lever during operation. Whenever use of the appliance is interrupted it is important to operate the safety button to prevent accidental activation of the jet.
- This appliance can be used by people with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- **DO NOT** leave this appliance in standby mode for more than 5 minutes.
- The high-pressure hose is designed to withstand high pressures. To avoid damage, it must be handled with special care. Misuse may lead to premature breakages or damage and cause the loss of warranty cover.
- **NEVER** start the pressure washer without first completely unwinding the high-pressure hose.
- When winding and unwinding the hose take care not to cause the pressure washer to overturn.
- Before unwinding or winding the hose, switch the appliance off and release the pressure in the hose itself.
- **ALWAYS** empty the hose, detergent bottle and pump before storage, especially in winter - as frozen water will damage the pump, hose and detergent bottle. Damage caused due to frozen water is not covered by the product warranty.

4.2 Connection to the Power Supply



**Caution! Risk of electric shock.
Do not open.**

This appliance is supplied with an approved plug and cord for your safety.

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.

The damaged or incomplete plug, when cut from the cord, shall be disabled to prevent connection to a live electrical outlet.

This appliance is a Class I† appliance and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

The value of the fuse fitted is marked on the pin face of the plug. Should the fuse need replacing, use a small plain-slot screwdriver to remove the fuse cover. Ensure the substitute is of the correct rating, approved to BS 1363/A and ASTA or BS Kite marked.

ASTA 

BSI 

This should only be performed by suitably qualified personnel.

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.

Important: ALWAYS follow the extension lead instructions regarding maximum load while the cable is wound. If in doubt, unwind the entire cable. A coiled extension lead generates heat which could melt the lead and cause a fire.

†EARTHED  : This product requires an earth connection to protect against electric shock from accessible conductive parts in the event of failure of the basic insulation.

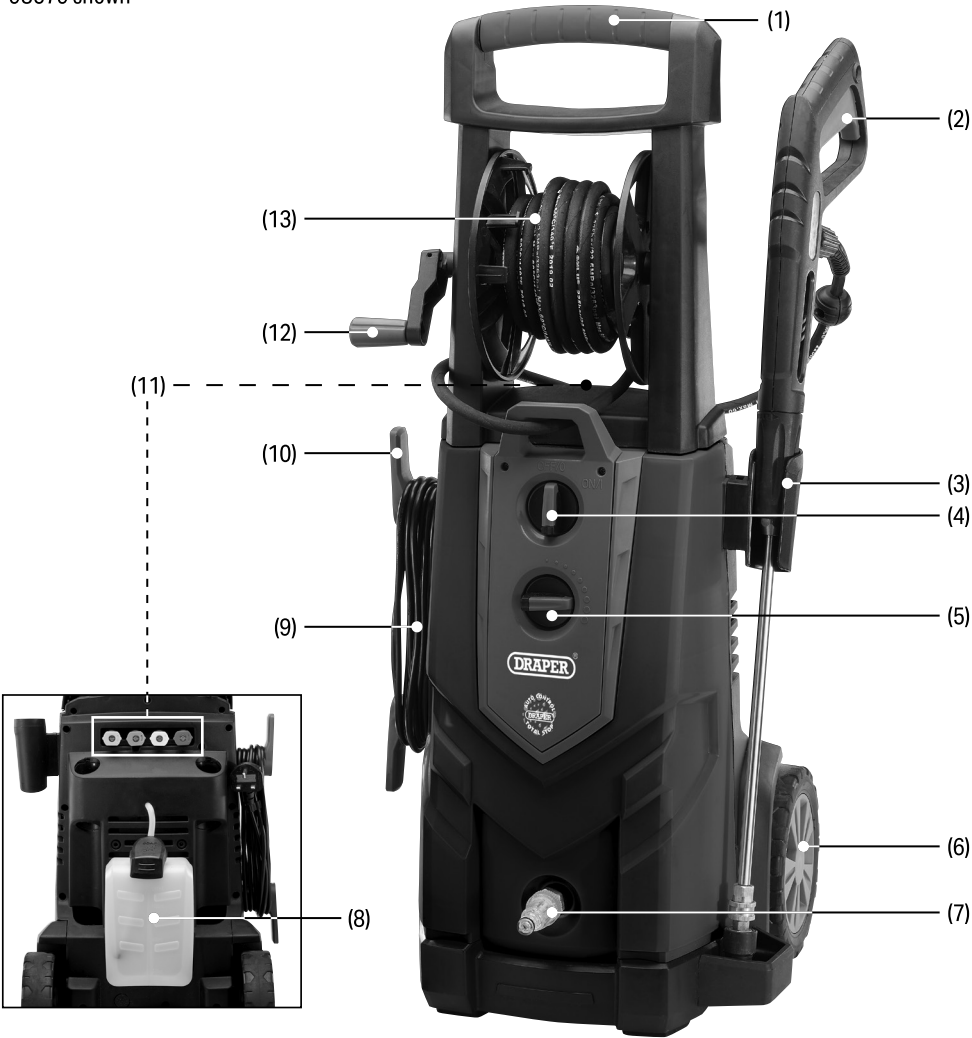
4.3 Residual Risk

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.

5. Identification and Unpacking

5.1 Product Overview

98679 shown

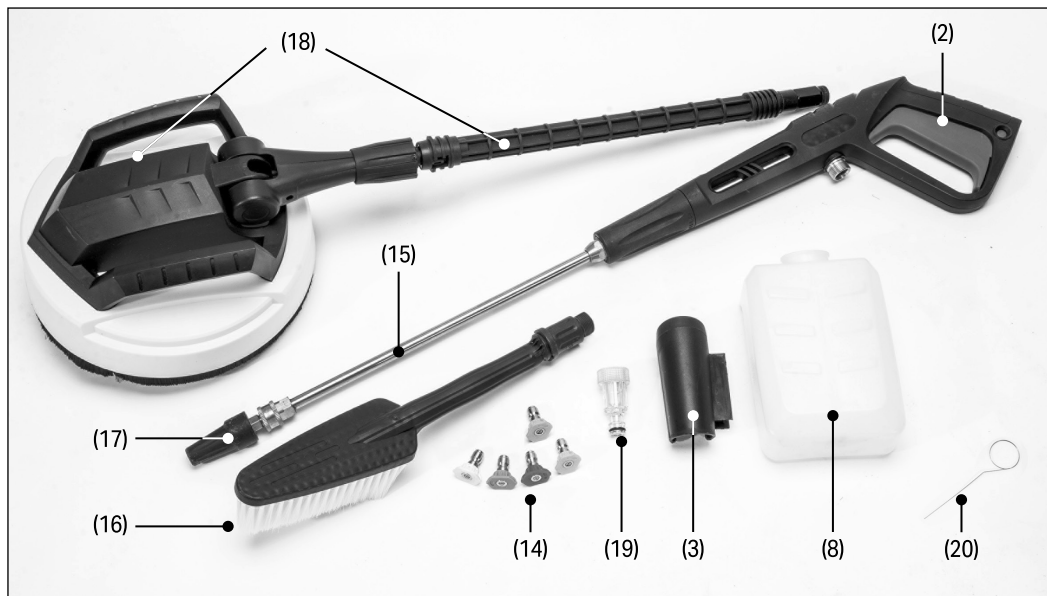


- | | |
|--|------------------------------------|
| 1. Transport handle | 8. Integrated detergent bottle |
| 2. Spray release trigger assembly | 9. Cord and plug |
| 3. Lance holder | 10. Cord hook |
| 4. Power supply 'ON/OFF' switch | 11. Spare nozzle storage (at back) |
| 5. Detergent flow adjustment dial (98679 only) | 12. Hose reel handle |
| 6. Transport wheels | 13. Hose |
| 7. Water inlet connection adaptor | |

5.2 What's in the Box?

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.



- | | |
|---------------------------------------|--|
| 2. Trigger assembly | 16. Fixed brush |
| 3. Lance holder | 17. Turbo nozzle |
| 8. Detergent bottle (supplied fitted) | 18. Patio cleaner attachment (2 parts) |
| 14. 5 X Spray Nozzles | 19. Water inlet connection adaptor |
| 15. Lance | 20. Nozzle cleaning pin (attached to back of manual) |

5.3 Packaging

Keep the product packaging for the duration of the warranty period for reference should the product need 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.

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

6. Assembly

Important: Before preparing or adjusting this product, read and understand all the safety instructions listed in this manual.

6.1 Fitting the Lance Holder (Fig.1 – Fig.2)

- Fit the lance holder (3) to the location point, then slide down to secure.

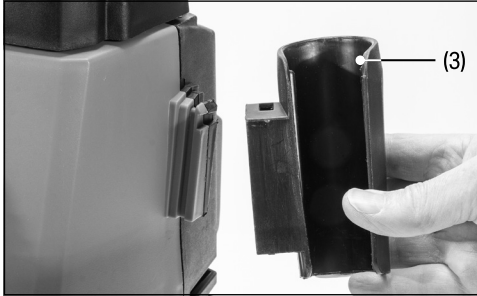


Fig. 1

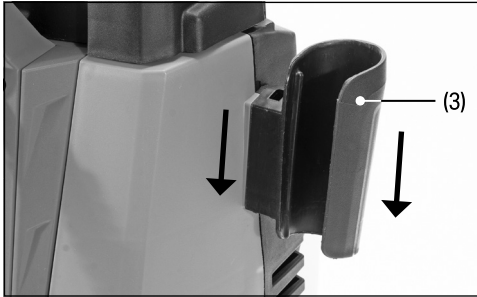


Fig. 2

6.2 Cord Tidy Hooks (Fig.3)

- 98679 – the two hooks (10) supplied can rotate 360°.
- 98678 – supplied with one hook which does not rotate.

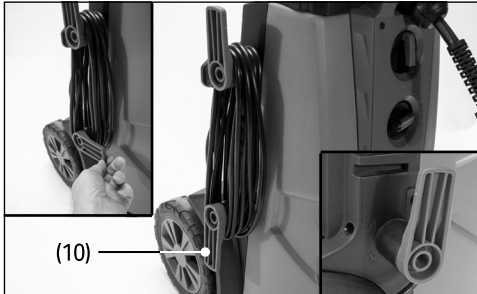


Fig. 3

6.3 Turbo Nozzle Holder (Fig.4)

- 98679 only** - the holder is supplied fitted. If it requires fitting, screw into position as shown in Fig.4.

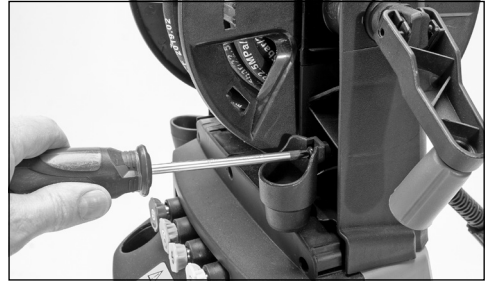


Fig. 4

6.4 Integrated Detergent Bottle (Fig.5 – Fig.6)

- Lift off the bottle (8) if fitted to the pressure washer.
- Remove the cap and hose (8.1) from the detergent bottle (8) and fill the bottle with a suitable detergent. Follow the manufacturer's recommended instructions for dilution and use.
- Refit the cap and hose to the bottle- ensuring the hose is in contact with the liquid.
- Slide the bottle back onto the pressure washer.

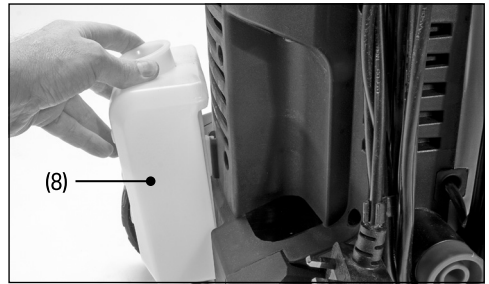


Fig. 5

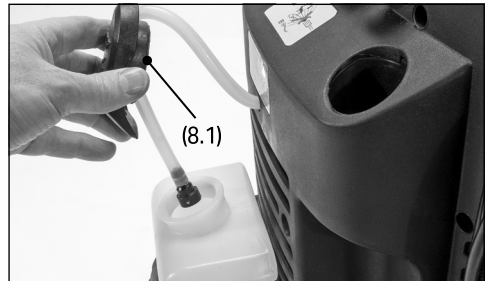


Fig. 6

6.5 Fitting the Hose and Lance (Fig 7 – Fig.9)

- Connect the end of the hose (13) to the trigger assembly (2) and screw on securely.

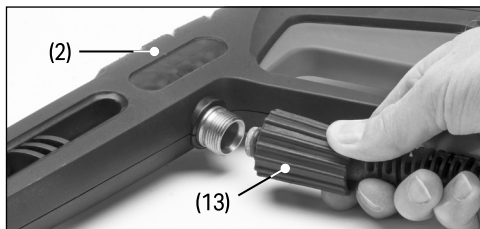


Fig. 7



Fig. 8

- Then connect the lance (15) onto the trigger assembly section (2).

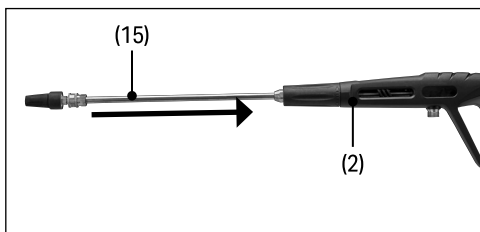


Fig. 9

6.6 Connecting the Water Supply (Fig.10)



Fig. 10

- Screw the supplied water inlet adaptor (19) onto the water inlet taking care not to cross the threads.
- Connect the pressure washer to the water supply, using a push fit hose connector (not supplied). Ensure the connector is correctly fitted to the hose and that a 'click' is heard when attaching to the machine.

Note:

- The supply must be between 1.5bar and 6.0bar and 6litres/min.
- Max. water temp: 50°C.
- ALWAYS** observe local bylaws and regulations.
- DO NOT** use 'water stop' type water connectors as these will interfere with the correct operation of the pressure washer.

6.7 Telescopic Handle Adjustment (Fig.11) (98678 only)

- The telescopic handle height can be adjusted by pressing button (A) at the side and moving the handle.
- Release the button once at the required height.

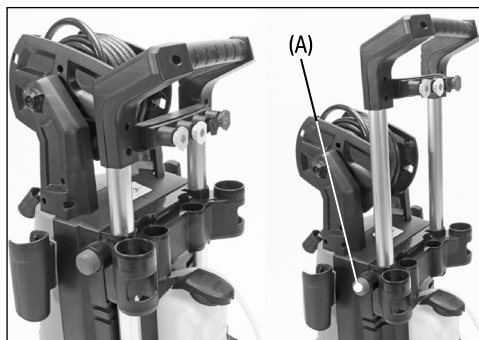


Fig. 11

7. Operating Instructions

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.

7.1 Total Stop Device

- This pressure washer is fitted with an '**Auto Control Total Stop Device**'. The pump motor starts and stops only when the trigger is activated, instead of running continuously.
- This device reduces the amount of water and electricity used and reduces the wear and tear on the machine's components. It also helps to cut down on the amount of noise emitted during use.

7.2 Switching On (Fig.12 – Fig.13)

Note:

- **DO NOT** run the motor '**DRY**', and ensure the washer is switched '**OFF**' before plugging in.
- This pressure washer is designed to be used in the upright position only.

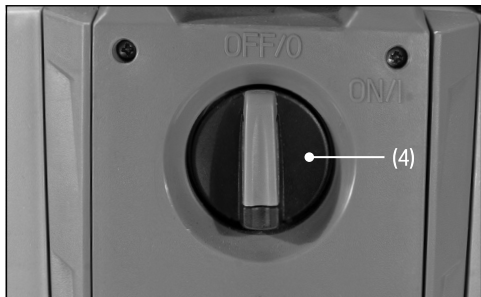


Fig. 12

To operate the pressure washer correctly carry out the following steps:

1. Ensure the power supply '**ON/OFF**' switch (4) is set to the '**O**' / '**OFF**' position.
2. Connect the pressure washer to the electricity supply outlet.
3. Connect to the water supply and turn on.

Note: the trigger assembly section contains a safety locking button (2.1) to prevent accidental operation. Press when not in use.

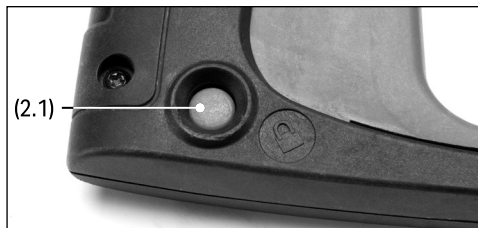


Fig. 13

4. Remove the lance nozzle and pull the trigger (2) to bleed the air out of the system.
5. While the trigger is pulled move the power supply '**ON/OFF**' switch (4) to the '**I**' / '**ON**' position.
6. When the air is purged release the trigger. Air is purged when you see an uninterrupted flow of water. Bleed time will depend on the length of water hose used.
7. Turn the power supply to the '**OFF**' position and refit the lance nozzle. The washer is now ready for use.
8. Turn the power supply to '**ON**' and point the pressure washer towards the floor, pull the trigger to ensure the nozzle is correctly fitted **BEFORE** use.
9. To achieve the desired spray pattern, rotate the turbo nozzle (17) or select another nozzle (14) – See 7.4.

7.3 Detergent Control (Fig.14) (98679 only)

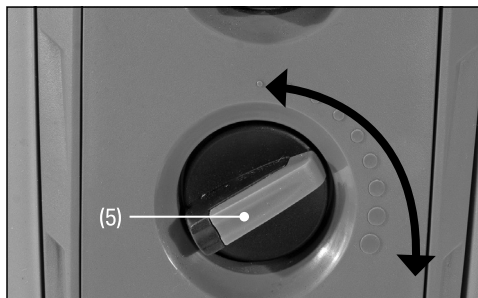


Fig. 14

- Turn the dial (5) to increase the flow rate of the cleaning solution.

7.4 Using Spray Nozzles (Fig.15 – Fig.17)

Note: **ALWAYS** ensure the pressure washer is switched off before changing the nozzles or attachments.



Fig. 15

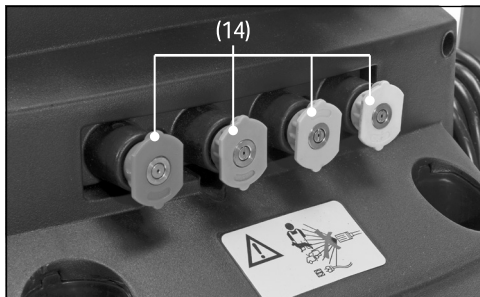


Fig. 16

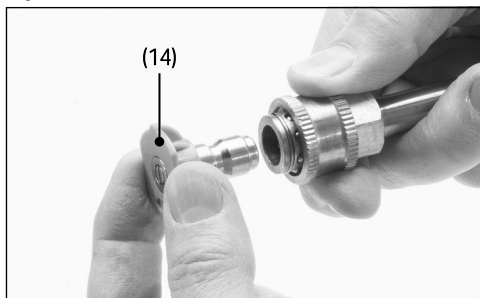


Fig. 17

As well as the Turbo Nozzle (17) the pressure washer comes with five nozzles (14). When not required four of the nozzles can be stored on the back of the machine.

Fit the required nozzle to the lance (15), push in and turn to lock in place.

Colour	Spray Pattern	
	Degree °	Application
Red	0°	Pin point high pressure stream. Covers only a small area. Suitable for use on surfaces such as metal or concrete which can withstand high pressure. DO NOT use on wood.
Yellow	15°	Intense cleaning of small areas. ONLY suitable of use on areas and materials that can withstand high pressure.
Green	25°	Intense cleaning of large areas.
White	40°	Less powerful stream of water. Use to cover a wide area for general cleaning jobs.
Black	Soap on	Low pressure nozzle for applying soap foam.
Turbo	N/A	Powerful spray in a circular pattern for a greater cleaning efficiency over large areas.

Turbo Nozzle



WARNING! Since a turbo nozzle uses a narrow high impact stream, only use it in applications where the cleaning surface cannot be damaged by narrow high impact spray.

It is recommended that the working distance between the nozzle and item/surface to be cleaned is 30cm.

Note: The turbo nozzle is not adjustable and cannot be used to apply detergent.

7.5 Fixed Brush (Fig. 18 – Fig.19)

- The fixed brush (16) has soft bristles and can be used in conjunction with the detergent dispenser to apply detergent to the surface you are cleaning. Ideal for cleaning car bodywork, windows etc.
- This is a low pressure setting.

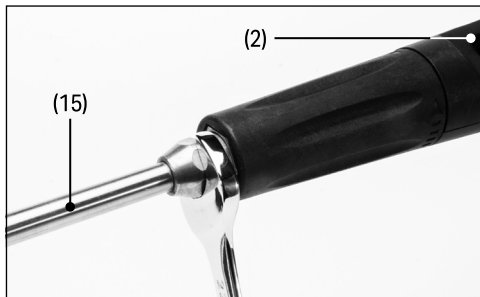


Fig. 18

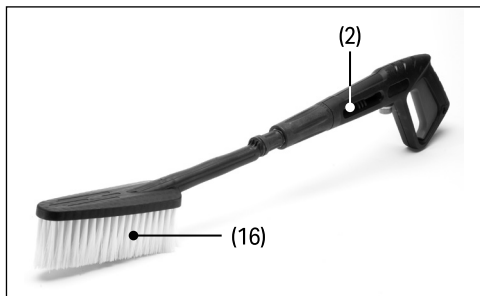


Fig. 19

- Remove the metal lance (15) from the trigger assembly (2).
- Then fit the brush (16) to the trigger assembly, push in and turn to lock securely in place.

7.6 Patio Cleaner (Fig.20 – Fig.21)

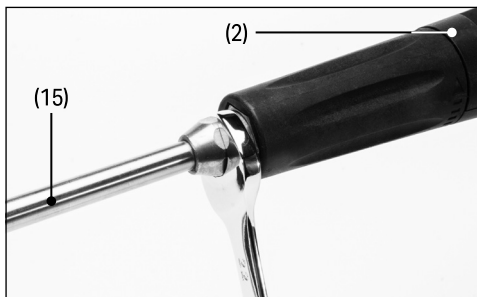


Fig. 20

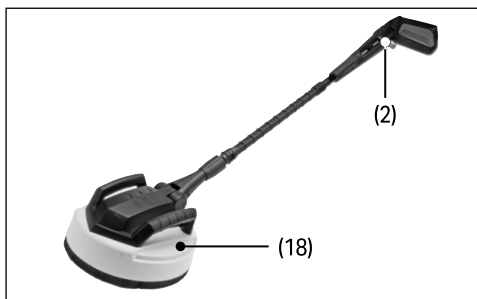


Fig. 21

- The patio cleaner attachment (18) is ideal for quick and effective cleaning of large flat areas.
- Connect the bayonet fitting of the patio attachment (18) onto the trigger assembly (2).
- Then push in and turn to lock in place.

 **WARNING!** The appliance must be switched off and unplugged from the power socket before carrying out any cleaning, maintenance or when fitting or removing parts or accessories.

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.

8.1 General Maintenance

- After use:
 - Switch off and unplug the pressure washer.
 - Turn off the water supply.
 - Pull the trigger to release the pressure and drain the water.
 - Disconnect the hose connection.
 - Disassemble the lance, trigger and hose from the machine.
 - Drain all remaining water and store away safely.
- Store in a dry, clean location out of the reach of children.
- **DO NOT** store this pressure washer and accessories at, or below 0°C. Frozen water inside the machine can cause critical damage to the pump and other components.

8.2 Using the Cleaning Pin

- Use the cleaning pin (20) supplied to remove debris and foreign matter from the nozzles.
- **Note:** the cleaning pin is supplied attached to the back of the instruction manual.

8.3 Bleeding Air from the System

To bleed any air from the pressure washer system follow the procedure detailed below:

1. Connect the water to the water inlet and turn on water.
2. With water outlet pointed in a safe direction turn on the pressure washer.
3. Allow to run for 20 - 30 seconds and then connect the high-pressure hose (**refer to section 6.6**).
4. Operate lance trigger to purge any air from inside the lance.
5. Pressure washer system is now bled of air.

8.4 Troubleshooting

Problem	Possible Cause	Remedy
Motor pulsing.	Air in the system.	Bleed the air from the system - Refer to Section 8.3 .
	'Water stop' type connector being used on water supply hose.	Replace hose connector with a 'straight through' type connector.
Pump fails to start.	Plug fuse blown.	Replace fuse.
	Power supply cord damaged.	Have the cord replaced by Draper Tools, an authorised service agent or similarly qualified personnel in order to avoid a hazard.
Pump stop/ start with the trigger operation.	Correct operation of the 'Total Stop Device'.	No action required.
Poor or low pressure.	Water supply hose blocked or kinked.	Unblock or un-kink water supply hose.
	Nozzle blocked.	Use cleaning pin to clean nozzle – refer to Section 8.2 .

9. Spares, Returns and Disposal

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

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

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

- **DO NOT** dispose of this product with domestic waste; most local authorities provide appropriate recycling facilities.



10. Warranty

24 months from date of purchase – Visit drapertools.com/warranty for full details.

However, if the tools are hired out, the warranty period is 90 days from the date of purchase.



Read the instruction manual.



Wear safety glasses.



Wear protective footwear.



Wear protective gloves.



Do not spray at animals or people.



For use with cool water. Do not exceed 50°C water temperature.



Earthed.



WEEE –
Waste Electrical & Electronic Equipment.
Do not dispose of Waste Electrical & Electronic
Equipment in with domestic rubbish.



Continuous A-Weighted Sound Pressure
Level.



European conformity



UK Conformity Assessed

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Please contact the Draper Tools Product Helpline for repair and servicing enquiries.