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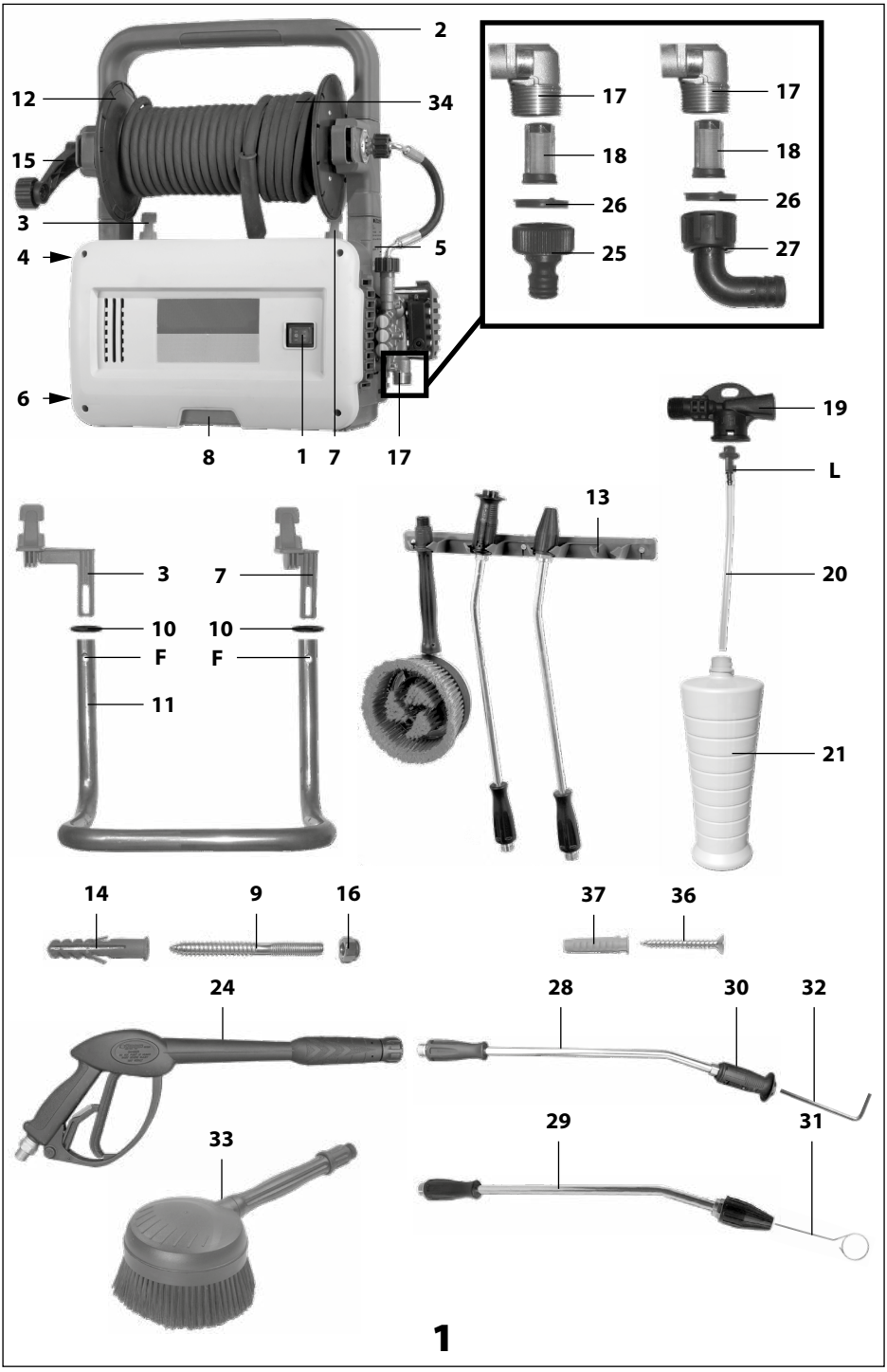
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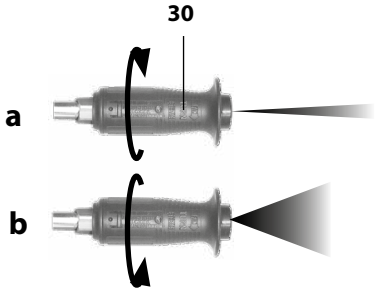


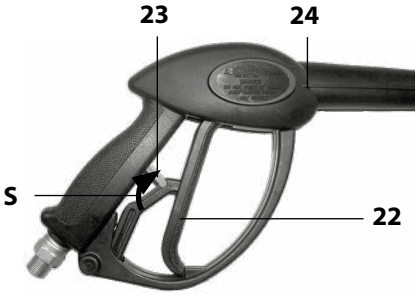
SIP TEMPEST 540/155 Wall Mounted Electric Pressure Washer

08909 User Manual

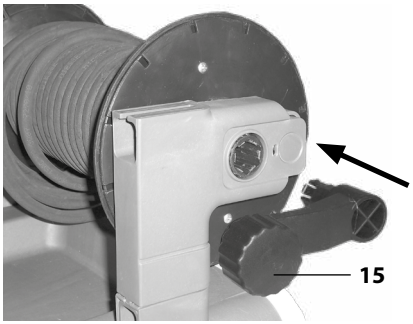
EN • WARNING. Read the instructions before use and assembly


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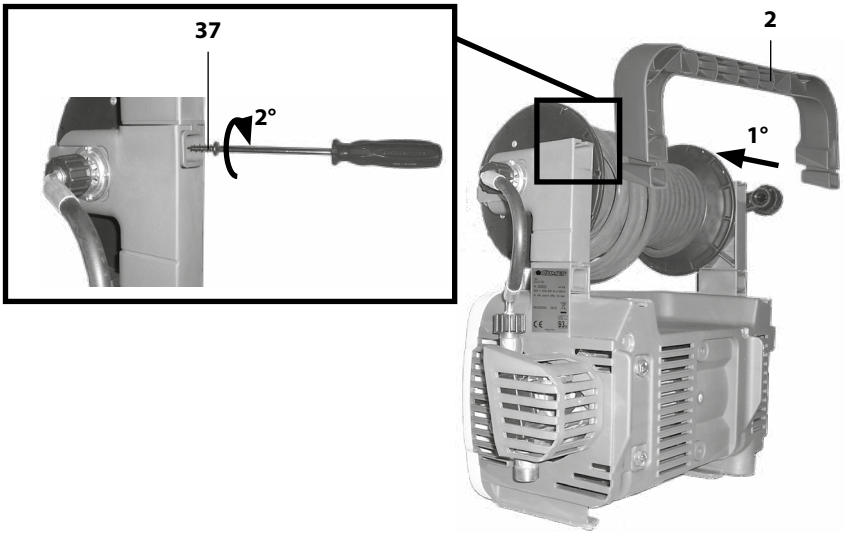




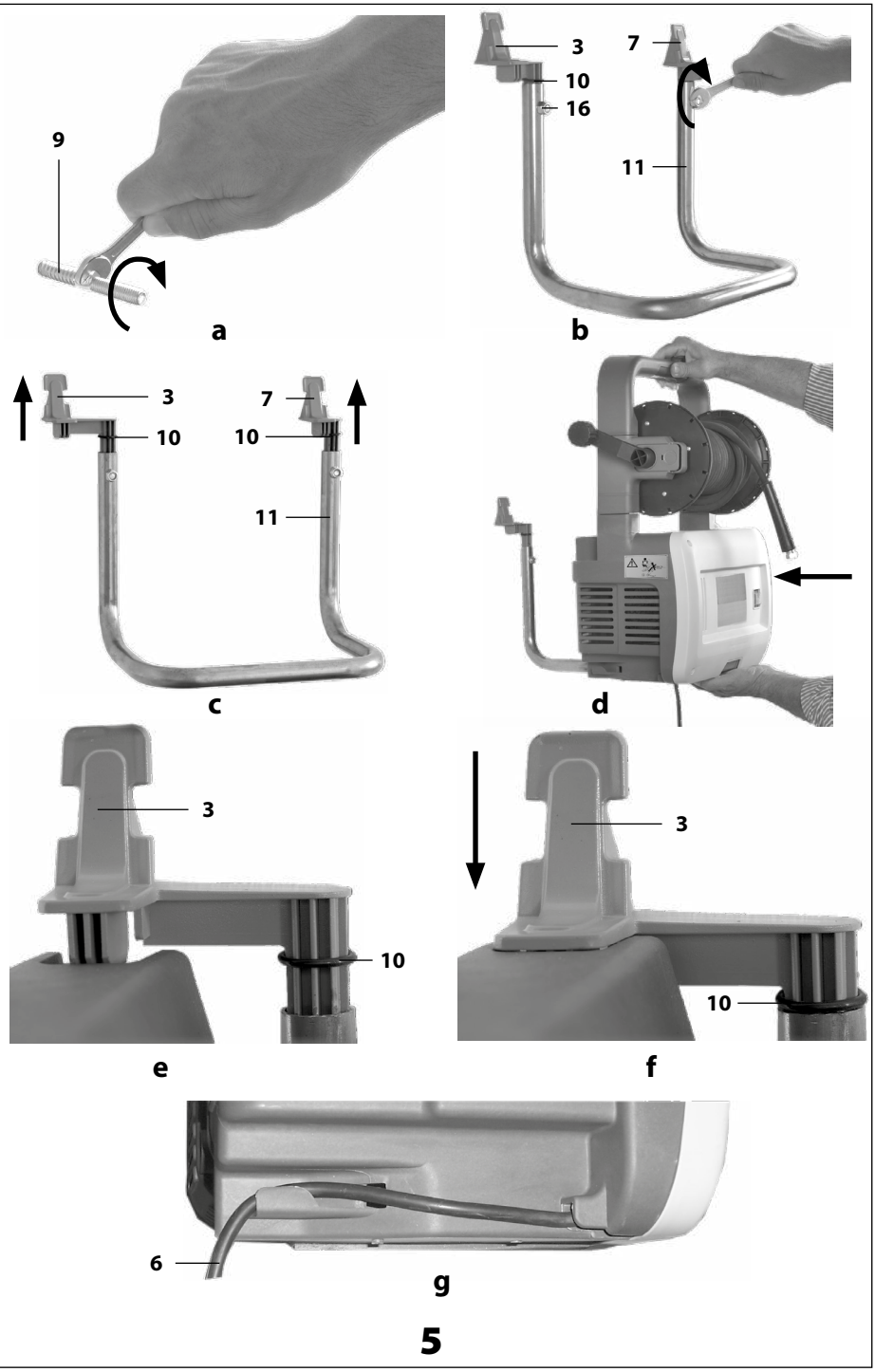
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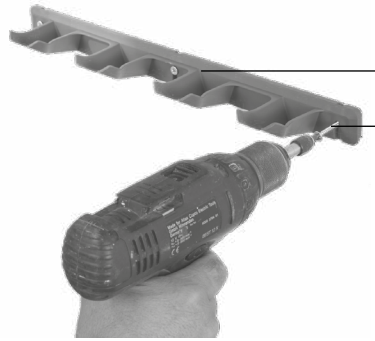
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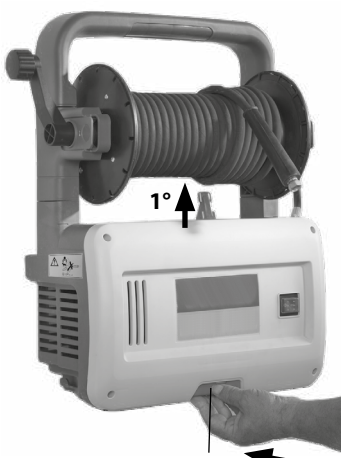
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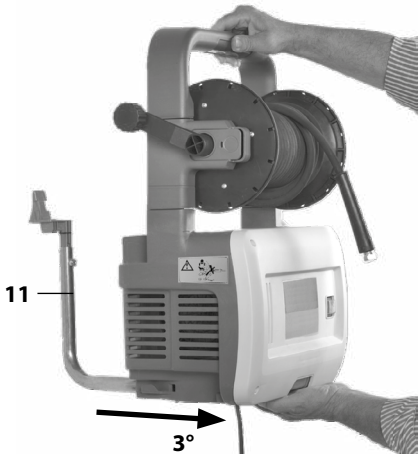
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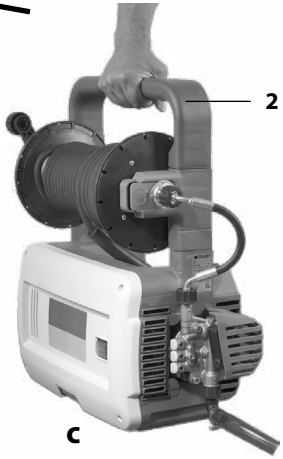
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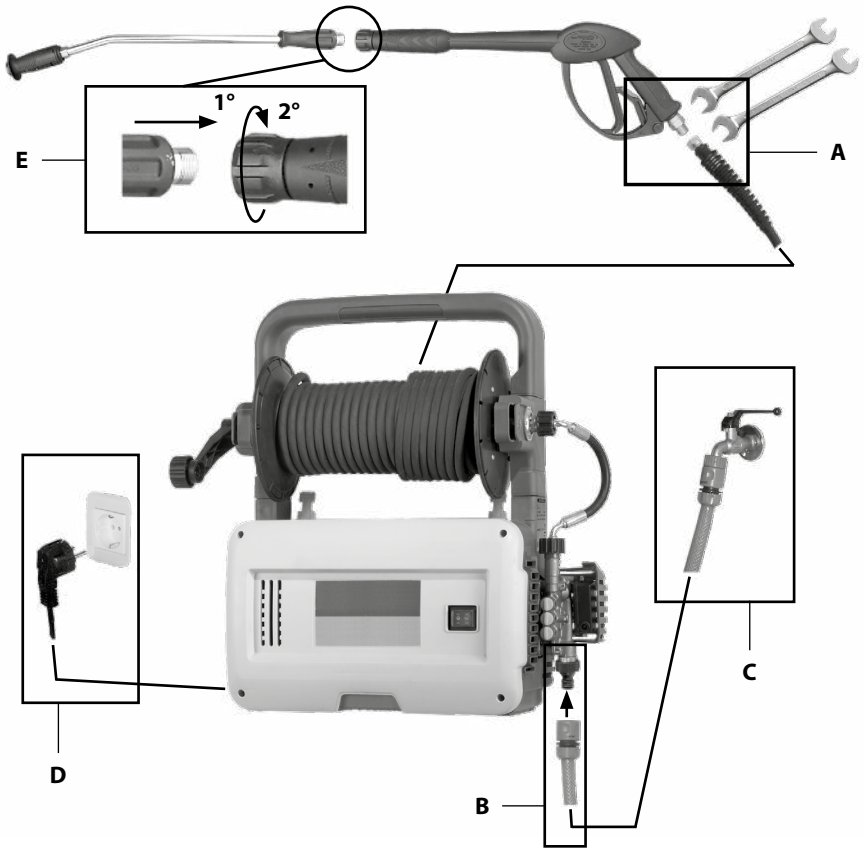


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WARNING | **Read and keep in mind that indicated in the INSTRUCTION MANUAL - SAFETY WARNINGS.**

TECHNICAL CHARACTERISTICS AND SPECIFICATIONS

	08909 Tempest 540/155
ELECTRICAL CONNECTIONS	
Power supply	230 V 1~50 Hz
Input	2,4 kW
Fuse	13 A
HYDRAULIC CONNECTION	
Maximum water supply temperature	40 °C 98 °F
Minimum water supply temperature	5 °C 41 °F
Minimum water supply flow rate	650 l/h 10,8 l/min 172 US gph
Maximum water supply pressure	0,8 MPa 8 bar 116 psi
Maximum priming depth	0 m 0 ft
PERFORMANCES	
Flow-rate	510 l/h 8,5 l/min 135 US gph
Maximum Pressure	15 MPa 150 bar 2175 psi
Reaction force on the gun	24 N
Sound pressure level	77,2 dB(A)
Vibration on operator's arm	1,77 m/s^2
WEIGHT AND DIMENSIONS	
Length x Width x Height	500 x 260 x 600 mm 19,7 x 10,2 x 22,4 in
Weight	22 kg 49 lb
Detergent tank	1,0 l 0,26 US gal

The characteristics and specifications are guidelines only.
The manufacturer reserves the right to make all modifications to the equipment deemed necessary.

EN

PARTS IDENTIFICATION

Refer to figs. 1, 2 and 3.

1 Main ON/OFF switch
2 Lifting and transport handle
3 Left safety hook
4 Warning plate. It informs of residual risks; it is forbidden to use the machine without having read the instruction manual first; it is forbidden to use the machine to wash people, animals, electrical equipment or the high pressure cleaner itself
5 Identification nameplate. It bears the serial number and the main technical specifications
6 Electrical power supply cable
7 Right safety hook
8 Release button
9 Wall-mounting frame securing screw
10 Check ring
11 Wall-mounting frame
12 Hose reel
13 Wall-mounted accessory frame
14 Wall-mounted frame securing wall-plug (orange)
15 Hose reel handle
16 Wall-mounted frame securing nut
17 Pump water inlet fitting
18 Water inlet filter
19 Foam spray nozzle
20 Detergent suction adjustment device
21 Detergent flask
22 High pressure gun lever
23 High pressure gun lever safety lock
24 High pressure gun
25 Water inlet quick-release fitting
26 Water inlet hose holder gasket
27 Water inlet hose holder bend
28 Spray nozzle pipe
29 Rotating spray nozzle pipe
30 Nozzle holder head
31 Nozzle cleaning pin
32 Nozzle disassembly key
33 Rotating high pressure cleaning brush
34 High pressure hose
35 Handle securing screw (length 2 cm/0.8")
36 Wall-mounted accessory frame securing screw (length 4 cm/1.6")
37 Wall-mounted accessory frame securing wall-plug (grey)

SAFETY DEVICES

- **Thermal protection.**
  This device stops the high pressure water cleaner if the electric motor overheats. If this occurs, proceed as follows:
  - Place the master switch (1) in position "0" and disconnect the plug from the wall socket;
  - Press lever (22) of the gun to discharge possible residual pressure;
  - Wait 10-15 minutes to allow the high-pressure cleaner to cool;
  - Check that the requirement for the mains power connections have been respected (see the **INSTRUCTION MANUAL - SAFETY WARNINGS**), paying particular attention if an extension lead is used;
  - Reconnect the plug and repeat the start procedure described at paragraph **"OPERATION"**.
- **Pressure restriction/adjustment valve.**
  This valve that is calibrated by the manufacturer, which allows the fluid pumped to return to the suction line of the pump, which avoids dangerous pressures when the high pressure water gun is shut-off or when attempting to set pressures above the admitted values.
- **Gun lever blocking device.**
  This safety catch (23) allows to block the lever (22) of the gun (24) in the closed position, preventing accidental activation (Fig. 2, position S).

STANDARD FITTINGS

Make sure that the following parts are included in the packaging of the purchased product:

- High pressure water cleaner.
- Hose reel complete with 20 m of high pressure delivery hose.
- Water gun.
- Spray gun hose.
- Rotating spray nozzle pipe
- Foam spray nozzle.
- Rotating high water cleaning brush
- Wall-mounting kit complete with securing nuts, screws and wall-plugs.
- Right and left safety hooks complete with stop rings.
- Wall-mounted accessory frame, complete with securing screws and wall-plugs.
- Hose reel handle.
- Handle complete with securing screws.
- Suction kit for use on walls, made up of gaskets, filter and quick-release fitting.
- Suction kit for use on the ground, made up of gasket and curved hose holder fitting.
- Instruction manual – Safety warnings.
- Instruction manual – Use and Maintenance.
- Guarantee certificate.
- Service centre booklet.
- Key for disassembling the nozzle.
- Nozzle cleaning pin.

If there are problems, contact your dealer or SIP After Sales Department.

OPTIONAL ACCESSORIES

The following range of accessories can be added to the standard high-pressure cleaner equipment:

- Fixed high pressure cleaning brush: designed to clean delicate surfaces.
- Hose purging probe: designed to unclog hoses and pipelines.
- Floor washing spray gun: designed to clean tiled floors and walls.
- Hose cleaning-guide kit: designed to wind-up the delivery hose easily and to clean it.
- Wheel kit: designed to make it easier to move the high pressure water cleaner around when taken off the wall.

INSTALLATION – FITTING ACCESSORIES

- Insert the handle and press right down (2), then secure it with the two screws supplied (35). **See FIG. 4.**
- Insert the hose reel handle until it clicks into place (15). **See FIG. 3.**
- Screw the high pressure hose fitting on the thread of the water gun (24) and tighten firmly with two 17-mm/0.67" fixed jaw spanners (not supplied). **ILLUSTRATED in FIG. 8.**
- Insert the filter (18) in the water inlet fitting (17). Insert the gasket (26) in the quick-release water inlet fitting (25) and screw it on tight onto the fitting (17). **See FIG. 1.**

INSTALLATION – WALL MOUNTING

- Chose a suitable wall where the high pressure water cleaner can be mounted: the high pressure water cleaner must be mounted exclusively on brick walls or reinforced cement walls with thickness of no less than 10 cm/4"; do not mount the high pressure water cleaner on walls made of plasterboard, wood, sheet metal or any other material that is not suitable to take the wall-plugs supplied.
- To mount on the wall, use exclusively the kit supplied (bracket, screws, wall-plugs and nuts): if any part of the kit is lost or damaged during installation, contact your dealer to have it replaced.
- Rest the bracket (11) against the wall and trace two marks with a pencil through the holes F (**See FIG. 1**) that will act as a reference for drilling the holes: position the frame roughly at the height of your shoulders to ensure ease of use.
- Using a 10 mm/0.4" bit (not supplied), suitable for drilling brick/reinforced cement walls, drill two holes, approximately 8-9 cm/3.2-3.5" in depth where the holes were marked earlier. When drilling the holes, pay attention to the safety warnings given in the use and maintenance manual of the drill used. Also remember to make sure no pipes and/or electrical cables run through the wall where you drill the holes.
- Put the wall-plugs (14) in the holes, making sure their necks are flush with the wall: do not push the wall-plugs too far into the wall and do not leave them protruding from it either.
- Using a 5 mm/0.2" fixed jaw spanner (not supplied), screw the screws (9) until the threaded part enters the wall-plug completely. **See FIG. 5-A.**
- Put the rubber rings (10) in the safety hooks (3) and (7), and then put the hooks in the wall bracket (11). Make sure the hook (3) is inserted on the left and the (7) on the right. **See FIG. 5-B and 5-C.**
- Put the bracket (11) in the screws protruding from the wall and secure it with the nuts (16). While doing this, make sure the screws (9) enter the hole F of the bracket and the special slot in the hooks
- (3) and (7). Before you tighten the nuts permanently (16), using a 13 mm/0.5" fixed jaw spanner (not supplied), make sure the hooks (3) and (7) are raised. **See FIG. 5-B and 5-C.**
- Make sure the wall bracket is fitted firmly: do not hang on the bracket with your own weight to check it.
- Make sure the release button (8) is released, by pushing it inwards; raise the high pressure water cleaner safely and fit the bottom guide in the bracket (11), until the button clicks (8). **See FIG. 5-D.**
- Lower the hooks (3) and (7), so that they couple in the cowling of the high pressure water cleaner. **See FIGS. 5-E and 5-F.**
- Feed the power supply cable (6) within the relative guide. **See FIG. 5-G.**
- If you wish, you can also install the wall-mounted accessory frame (13), exploiting the screws (36) and the wall-plugs (37w) supplied. To drill, use a 6 mm/0.24" bit (not supplied), making three holes, approximately 4-5 cm/1.6-2.0" in depth by marks made as previously described for the wall-mounted frame. Use a suitable Philips screwdriver to tighten the screws (not supplied). **See FIG. 6.**

DEMOUNTING FROM THE WALL – INSTALLING ON THE FLOOR

- Unscrew the fitting (25) and remove the filter and gasket. **See FIG. 1.** Put the fitting away in a safe place because it will be used again when the high pressure water cleaner is put back on the wall.
- Put the filter (18) in the water inlet fitting (17). Put the gasket (26) in the curved hose holder (27) and screw it to the fitting (17). **See FIG. 1.** The installation of the curved suction fitting

guarantees the correct connection of the suction pipe, which would otherwise interfere with the floor. **See FIG. 7-C.**

- Raise the stops (3) and (7), so that they uncouple from the cowling of the high pressure water cleaner and release the stop (8), pushing it inwards until it clicks in place. **SEE FIG. 7-A.**
- Holding it firmly, take the high pressure water cleaner off the bracket (11) and rest it on the floor. **See FIGS. 7-B and 7-C.**

OPERATION – PRELIMINARY PROCEDURES

- If used on the floor, take the high pressure water cleaner to the work position, getting hold of its handle (2). **See FIG. 7-C.**
- Completely unreel the high pressure hose (34).
- If working on the wall, secure a supply hose to the quick-release water inlet fitting, using a generalpurpose gardening quick-release fitting. **PROCEDURE B of FIG. 8.**
- If working on the floor, exploiting a collar clip (not supplied), secure a supply hose with inside diameter of 19 mm/0.75" to the curved water inlet hose holder.
- Open the water supply tap, making sure there is no dripping. **PROCEDURE C of FIG. 8.**
- Make sure the main ON/OFF switch (1) is turned to "0" and connect the plug. **PROCEDURE D of FIG. 8.**
- Turn the main ON/OFF switch (1) to position "1".
- Press the lever (22) of the high pressure water cleaner and wait for water to flow out continuously.
- Switch the main ON/OFF switch (1) to position "0" and connect the spray hose (28) or (29) to the water gun (24), tightening firmly. **PROCEDURE E of FIG. 8.**

STANDARD OPERATION (AT HIGH-PRESSURE)

- Start the high pressure water cleaner again, switching the main ON/OFF switch (1) to position "1".
- **NOTE:** when starting in this phase, the high pressure water cleaner will stop immediately after the starting breakaway because the **TOTAL STOP** device trips.
- To activate the high pressure water cleaner, to start cleaning, simply operate the lever (22) of the high pressure cleaning gun.
- The angle of the jet of water can be adjusted via the head (30) (Fig. 2 - Positions a and b).

WORKING WITH DETERGENT – FOAM SPRAY

The detergents recommended by the manufacturer are over 90% biodegradable.
Refer to the label on the detergent packaging for use instruction.

- Fill the flask (21) with the required detergent.
- Adjust the suction capacity of the detergent as follows:
  - disconnect the device (20) from the spray nozzle (19).
  - register the tooth L of the device (20) with one of the numbers written inside the lance (19) (1: minimum suction, 6: maximum suction).
  - fit the device (20) back in the spray nozzle (19).
- Couple the flask (21) on the foam spray nozzle (19).
- Switch the main ON/OFF switch (1) to position "0" and connect the spray nozzle (19) to the water gun (24).
- Start the high pressure water cleaner again, turning the main ON/OFF switch (1) to position "1" and operate the lever (22) (suction and mixing will occur automatically when the water flows through).

STOPPING – TOTAL STOP

- Release the lever (22) of the high pressure water gun and the cleaner will stop automatically. The cleaner will start again regularly the next time the lever of the high pressure water gun is pressed.

STOPPING

- Completely close the water supply tap (or remove the suction pipe from the tank).
- Run the high-pressure cleaner for a few seconds with the lever (22) of the gun pressed to expel any excess water.
- Place the master switch (1) into position "0".
- Remove the plug from the power socket.
- Eliminate any residual pressure that has remained in the high-pressure pipe (34) by pressing the lever (22) of the gun for a few seconds.
- Wait for the high-pressure cleaner to cool.

STORAGE

- Reel-up the high pressure hose (34) with care and without bending it.
- Wind-up the power supply cable with care.
- When using on the floor, put the high pressure water cleaner away carefully in a dry and clean place.
- Make sure not to damage the power supply cable and the high pressure hose.

ROUTINE MAINTENANCE

Carry out the operations described in paragraph "**STOPPING**", following the table below.

MAINTENANCE INTERVAL	OPERATION
On every use	• Check the power cable, high-pressure pipe, connectors, gun and lance pipe. • If one or more parts are damaged, do not use the high-pressure water cleaner and contact a QUALIFIED TECHNICIAN.
Weekly	• Cleaning of inlet water filter (18). • Unscrew the hose connector (25) or (27) and remove the filter (18). Cleaning the filter under running water or compressed air is generally sufficient. In more difficult cases, use a scale-removing product or replace it by contacting an authorised assistance centre to purchase it. • Refit the filter and tighten the hose connector.
Monthly	• Cleaning the nozzle. It is usually sufficient to clean the hole of the nozzle with the pin supplied (31). If this operation fails to satisfactorily clean the nozzle, replace the latter by ordering a spare part from an authorised service centre. The nozzle is replaced using the key (32) (supplied).

SUPPLEMENTARY MAINTENANCE

Supplementary maintenance must be carried out by a **QUALIFIED TECHNICIAN**, following the table below (guideline data).

MAINTENANCE INTERVAL	OPERATION
Every 50 hours	• Check the pump hydraulic circuit (water). • Check pump fixing
Every 100 hours	• Pump oil replacement. • Check pump delivery/intake valve. • Check tightness of pump screws. • Check pump control valve. • Check the safety devices.

PROBLEMS, CAUSES AND REMEDIES

PROBLEMS	CAUSES	REMEDIES
The high-pressure water cleaner doesnot start when the master switch (1) is place into position "1".	• The safety device of the system to which the high-pressure water cleaner is connected has cut-in (fuse, differential switch, etc.).	• Reset the safety device. **IF IT CUTS-IN AGAIN, DO NOT USE THE HIGH-PRESSURE WATER CLEANER AND CONTACT A QUALIFIED TECHNICIAN.**
	• Plug not connected correctly.	• Disconnect the plug and reconnect it correctly.
The high-pressure water cleaner vibrates a lot and is noisy.	• Dirty water inlet filter (18).	• Follow that indicated in paragraph **"ROUTINE MAINTENANCE".**
	• Insufficient water supply or excessive priming depth.	• Make sure the tap is completely open and that the flow rate of the water supply line complies with what is written in the **"SPECIFICATIONS AND TECHNICAL DATA"** section.
Poor detergent suction.	• The detergent suction adjustment device (20) is not set correctly.	• Proceed as written in the **"WORKING WITH DETERGENT"** section.
	• No product in flask.	• Add product.
	• Excessive detergent viscosity.	• Use a detergent recommended by the manufacturer, maintaining the dilution indicated on the label.
Water does not exit the nozzle.	• No water.	• Check that the mains tap is fully open or that the suction pipe can prime.
	• Blocked nozzle.	• Clean and/or replace the nozzle as indicated in paragraph **"ROUTINE MAINTENANCE"**.
The high-pressure water cleaner stops while operating.	• The safety device of the system to which the high-pressure water cleaner is connected has cut-in (fuse, differential switch, etc.).	• Reset the safety device. **IF IT CUTS-IN AGAIN, DO NOT USE THE HIGH-PRESSURE WATER CLEANER AND CONTACT A QUALIFIED TECHNICIAN.**
	• The thermal circuit breaker has tripped.	• Follow that indicated in paragraph **"SAFETY DEVICES".**
The high-pressure water cleaner starts spontaneously from **TOTAL STOP** condition.	• Leaks and/or dripping in the delivery circuit.	• Check the condition of the delivery circuit.
When turning the master switch (1) the engine hums but does not start.	• Unsuitable electrical system and/or extension lead.	• Check that the electrical connections have been made correctly (see **INSTRUCTION MANUAL - SAFETY WARNINGS**), with particular reference to the extension lead used.

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EU - DECLARATION OF CONFORMITY

We

SIP (Machinery Europe) Ltd

ASM Chartered Accountants
First Floor, Block One,
Quayside Business Park
Dundalk
County Louth
Republic of Ireland
As The Manufacturer's Authorised
Representative Declare that the

SIP Tempest 540/155 Wall Mounted Pressure Washer

Part No. 08909

Suppliers Model Type: 90520017
Max Flow: 8,5 l/min
Net Installed Power: 2400W

Conforms to the requirements of the following Directive/s, as indicated.

2006/42/EC 2009/127/EC	Machinery Directive
2014/30/EU	EMC Directive
2011/65/EU	RoHS Directive
2014/14/EC 2005/88/EC	Outdoor Noise Directive

The appliance is defined at no.27 of the annex I. Conformity evaluation procedure according to annex V.

Measured Sound Pressure	Measured Sound Power
dB(A)	dB(A)
Uncertainty	**Granted Sound Power**
dB(A)	dB(A)

And the relevant harmonised standard/s, including:

EN 60335-1
EN 60335-2-79
EN 62233:2008
EN 50581
EN 55014-1:2006+A1:2009+A2:2011
EN 55014-2:2015
EN 61000-3-2:2014.
EN 61000-3-3:2013.

Name: Mr Paul Ippaso
Position: Director

The technical file is kept at:
SIP Industrial Products Ltd Loughborough Leicestershire LE12 9NH UK

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We

SIP (Industrial Products) Ltd
Gelders Hall Road
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England

As the manufacturer within the UK, England, Scotland & Wales, declare that the

SIP Tempest 540/155 Wall Mounted Pressure Washer

Part No. 08909

Suppliers Model Type: 90520017
Max Flow: 8,5 l/min
Net Installed Power: 2400 W

Conforms to the requirements of the following Directive/s, as indicated.

Supply of Machinery (Safety) Regulations 2008
Electromagnetic Compatibility Regulations 2016
Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
Pressure Equipment (Safety) Regulations 2016

Measured Sound Power Level	Guaranteed sound power level
LpA dB(A)	**LwA dB(A)**

And the relevant harmonised standard/s, including:

BS EN 60335-1
BS EN 60335-2-79
BS EN 62233:2008
BS EN 50581
BS EN 55014-1:2006+A1:2009+A2:2011
BS EN 55014-2:2015
BS EN 61000-3-2:2014
BS EN 55014-2:2015 BS EN 61000-3-2:2014

UK CA

Name: Mr Paul Ippaso
Position: Director



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



Never dispose of electrical equipment or batteries in with your domestic waste. If your supplier offers a disposal facility please use it or alternatively use a recognised re-cycling agent. This will allow the recycling of raw materials and help protect the environment.

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FOR HELP OR ADVICE ON THIS PRODUCT PLEASE CONTACT YOUR DISTRIBUTOR, OR SIP DIRECTLY ON:
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