



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.

Sip
SIP INDUSTRIAL

machinery specialists since 1968

Tempest

TP550/206

Petrol Pressure Washer



08918

**FOR HELP OR ADVICE ON THIS PRODUCT PLEASE CONTACT YOUR DISTRIBUTOR,
OR SIP DIRECTLY ON:
TEL: 01509500400
EMAIL: sales@sip-group.com or technical@sip-group.com
www.sip-group.com**

Ref: 070515

Please read and fully understand the instructions in this manual before operation. Keep this manual safe for future reference.

DECLARATION OF CONFORMITY

Declaration of Conformity

We

SIP (Industrial Products) Ltd
Gelders Hall Road
Shepshed
Loughborough
Leicestershire
LE12 9NH
England

As the manufacturer's authorised representative within the EC
declare that the

Tempest TP550/206 Petrol Pressure Washer - SIP Part. No. 08918

Conforms to the requirements of the following directive(s), as indicated.

2006/42/EC	Machinery Directive
2004/108/EC	EMC Directive
97/68/EC	Emissions From Non-road Mobile Machinery
As Amended By 2012/46/EU	
2000/14/EC	Noise Emission Directive
As Amended By 2005/88/EC	
2002/95/EC	RoHS Directive

And the relevant harmonised standard(s), including:

EN 55012:2007+A1
EN 61000-6-1:2007

Signed: 

Mr P. Ippaso - Managing Director - SIP (Industrial Products) Ltd
Date: 23/08/2014.



PARTS LIST

PUMP...cont

Ref. No.	Description	SIP Code	Ref. No.	Description	SIP Code
47.	O-ring	PW08-00311	52.	Plug	PW08-00316
48.	O-ring	PW08-00312	2, 53 - 65.	Bypass kit	PW08-00317
49.	Steel ball	PW08-00313	33, 66 - 69.	Valve complete	PW08-00318
50.	Spring	PW08-00314	70.	Sight glass	PW08-00319
51.	O-ring	PW08-00315			

ENGINE

Ref. No.	Description	SIP Code	Ref. No.	Description	SIP Code
N/A.	Ignition coil	PW08-00351	N/A.	Air filter	PW08-00357
N/A.	Switch	PW08-00352	N/A.	Fuel tank cap	PW08-00358
N/A.	Pull cord	PW08-00353	N/A.	Fuel tank filter	PW08-00359
N/A.	Carburettor gasket	PW08-00354	N/A.	Fuel tank	PW08-00360
N/A.	Carburettor	PW08-00355	N/A.	Fuel tap	PW08-00361
N/A.	Air filter gasket	PW08-00356	N/A.	Low oil sensor	PW08-00362
N/A.	Spark plug	55770	N/A.	Speed governor assy.	PW08-00363

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3.	Contents
4.	Safety Symbols Used Throughout This Manual
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SAFETY SYMBOLS USED THROUGHOUT THIS MANUAL



Danger / Caution: Indicates risk of personal injury and/or the possibility of damage.



Warning: Risk of electrical injury or damage!



Hot Surfaces: Indicates risk of possible burning due to hot surfaces created during normal operation.



Note: Supplementary information.



Poisonous Fumes: Indicates a risk of possible inhalation of harmful fumes if care is not taken.



Flammable: Indicates possible risk of combustion if care is not taken.

SAFETY INSTRUCTIONS



Important: Please read the following instructions carefully, *failure to do so could lead to serious personal injury and / or damage to the pressure washer.*

Every SIP pressure washer is carefully packed after assembly; On receiving the pressure washer, check that it has not been damaged during transportation. If the pressure washer is damaged, inform your distributor immediately, and, do not put the pressure washer into operation until the damage has been repaired or the item replaced.

- Before starting or servicing the pressure washer, read and understand all instructions. Failure to follow safety precautions or instructions can cause equipment damage and/or serious personal injury; Retain all manuals for future reference.

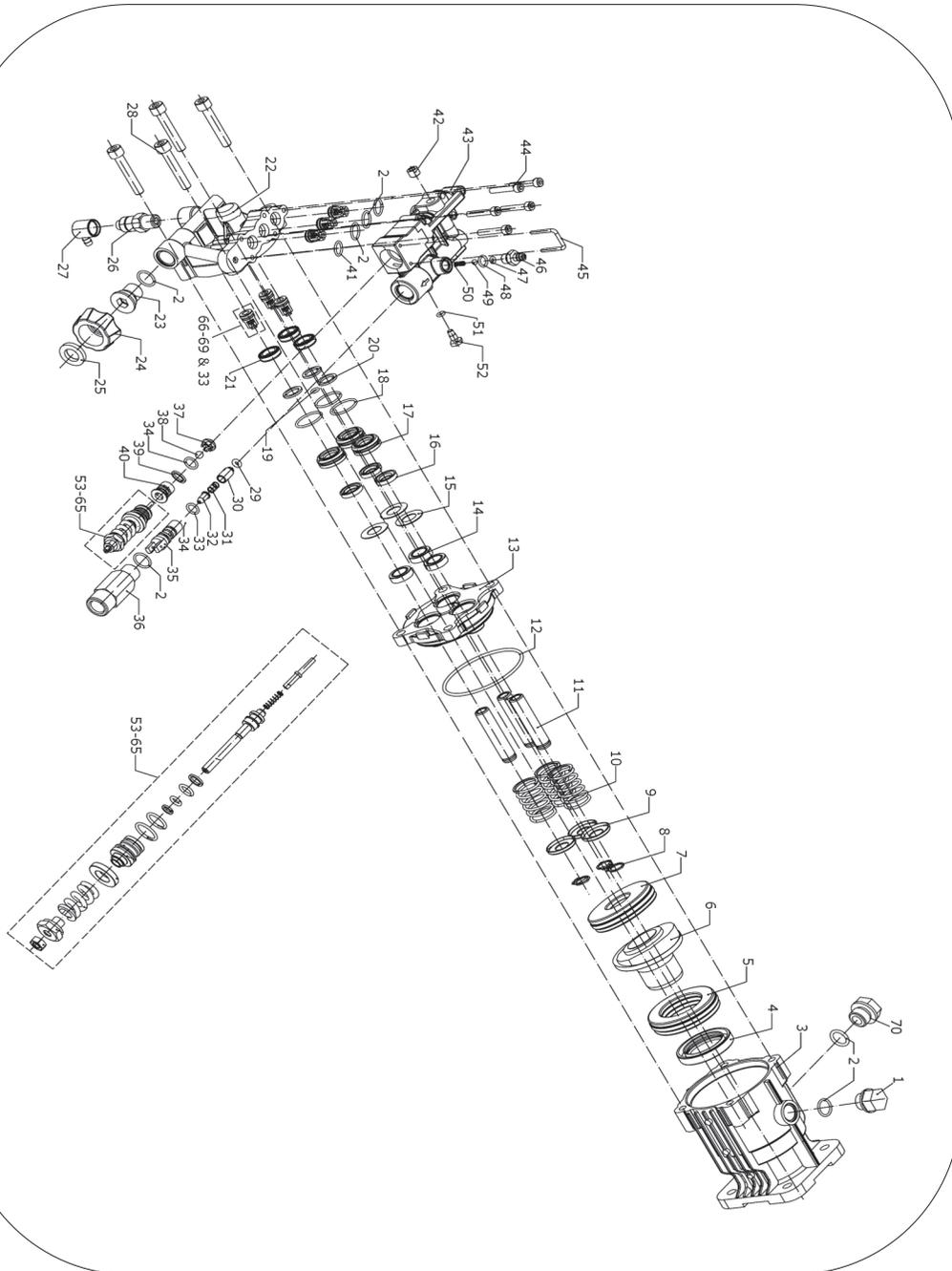
PARTS LIST

PUMP

Ref. No.	Description	SIP Code	Ref. No.	Description	SIP Code
1.	Filler bung	PW08-00265	24.	Nut	PW08-00288
2.	O-ring	PW08-00266	25.	Filter	PW08-00289
3.	Pump casing	PW08-00267	26.	Thermostatic valve	PW08-00290
4.	Oil seal	PW08-00268	27.	Thermostatic valve cap	PW08-00291
5.	Bearing	PW08-00269	28.	Bolt (M8 x 50)	PW08-00292
6.	Swash plate	PW08-00270	29.	O-ring	PW08-00293
7.	Bearing	PW08-00271	30.	Water return valve	PW08-00294
8.	Circlip	PW08-00272	31.	Spring	PW08-00295
9.	Spring seat	PW08-00273	32.	Vacuum nozzle	PW08-00296
10.	Spring	PW08-00274	33.	O-ring	PW08-00297
11.	Pin	PW08-00275	34.	O-ring	PW08-00298
12.	O-ring	PW08-00276	35.	Vacuum valve	PW08-00299
13.	Pump cover	PW08-00277	36.	Connector	PW08-00300
14.	Oil seal	PW08-00278	37.	Bracket	PW08-00301
15.	Gasket	PW08-00279	38.	Steel ball	PW08-00302
16.	Low pressure seal	PW08-00280	39.	Circlip	PW08-00303
17.	Spacer	PW08-00281	40.	Overflow valve	PW08-00304
18.	O-ring	PW08-00282	41.	O-ring	PW08-00305
19.	O-ring	PW08-00283	42.	Pin	PW08-00306
20.	Washer	PW08-00284	43.	Water outlet base	PW08-00307
21.	High pressure seal	PW08-00285	44.	Bolt (M5 x 30)	PW08-00308
22.	Pump head	PW08-00286	45.	Snap ring	PW08-00309
23.	Connector	PW08-00287	46.	Connector	PW08-00310

EXPLODED DRAWING

PUMP



SAFETY INSTRUCTIONS...cont

- **Never** use this pressure washer for any application other than that specified by the manufacturer. **Never** operate this pressure washer under conditions not approved by the manufacturer.
- **Never** attempt to modify this pressure washer to perform in any manner not intended by the manufacturer.
- Use only products and parts recommended by the manufacturer for maintenance and repairs.
- Be sure that the pressure washer is operated only by persons who have read and who understand all of the safety and operating instructions.
- Be sure that the pressure washer is placed on a flat level surface prior to and during operation. The pressure washer must not slide or shift during operation.
- Keep all untrained persons away from the pressure washer during operation.
- **Do not** allow persons wearing loose clothing or jewellery to start or operate the pressure washer. Loose clothing or jewellery may become entangled in moving components, causing equipment damage and/or personal injury.
- Be aware of moving parts and hot surfaces that occur during normal operation of this pressure washer.
- **Never** operate the pressure washer with damaged, broken or missing parts, or with any guards or covers removed.
- **Do not** refill the fuel tank while the engine is running, or still hot.
- Be careful to prevent fuel spillage during refills.
- Be sure the fuel tank cap is securely in place before starting the engine.
- Allow the engine to cool before refuelling, or servicing.
- **Never** refuel whilst smoking or in the vicinity of a naked flame, or other ignition source.
- Take care not to spill any fuel on the engine, exhaust or any part of the pressure washer.
- Should any fuel make contact with your clothes; change and wash them immediately.
- If any fuel makes contact with your skin wash with soap and water immediately.
- If you swallow any fuel, inhale any vapour or allow contact with your eyes, seek medical attention immediately.
- Be sure to store petrol in clean containers that do not contain water, dirt or rust as this will reduce the life of the engine; ensure that all local fuel storage laws are followed.
- **Never** operate this pressure washer in an explosive atmosphere or near any flammable sources.
- **Always** operate this pressure washer in a well ventilated area to reduce the risk of suffocation.
- **Never** drag the pressure washer with the hose in order to move it.
- **Never** cover the pressure washer or restrict the exhaust or air flow in any way.
- **Always** ensure that the pressure washer is at least 1m (3ft) away from any walls or

SAFETY INSTRUCTIONS....cont

buildings to allow correct air flow.

- **Always** connect the water inlet to an adequate supply with enough flow and pressure; such as mains water supply.
- Only connect the pressure washer to a **cold** water supply; **never** connect to a hot water supply.
- This pressure washer was **not** designed to 'suck' water from a barrel of water, or similar.
- When not in use, always ensure that the pressure washer is fully drained of any water and stored in a warm environment to protect it from frost damage.
- **Never** direct the flow of water at other persons or animals.
- **Never** direct the flow of water at electrical or electronic items.
- **Never** direct the flow of water towards the pressure washer itself.
- **Do not** stand or sit on the pressure washer, it was not designed for this purpose.
- **Never** run the pressure washer without a clean water supply connected to it.
- **Never** run the pressure washer for more than 3 minutes without depressing the trigger.
- **Understand the operating environment;** Before each use the operator should assess, understand and where possible reduce the specific risks and dangers associated with the operating environment. Bystanders should also be made aware of any risks associated with the operating environment.



Always wear eye protection when using or maintaining the pressure washer. Close bystanders should also wear adequate eye protection.



Caution: Anyone who operates this pressure washer should read and fully understand all of the instructions and warnings in this manual.



Hot Surfaces: During normal operation certain parts of this pressure washer will become hot. **Always** stay alert and be aware of hot components / surfaces. Allow the engine to cool before attempting to move, clean or maintain the pressure washer.



Poisonous Fumes: Exhaust fumes produced during normal operation are poisonous. **Do not** operate this pressure washer in enclosed areas.

PARTS LIST

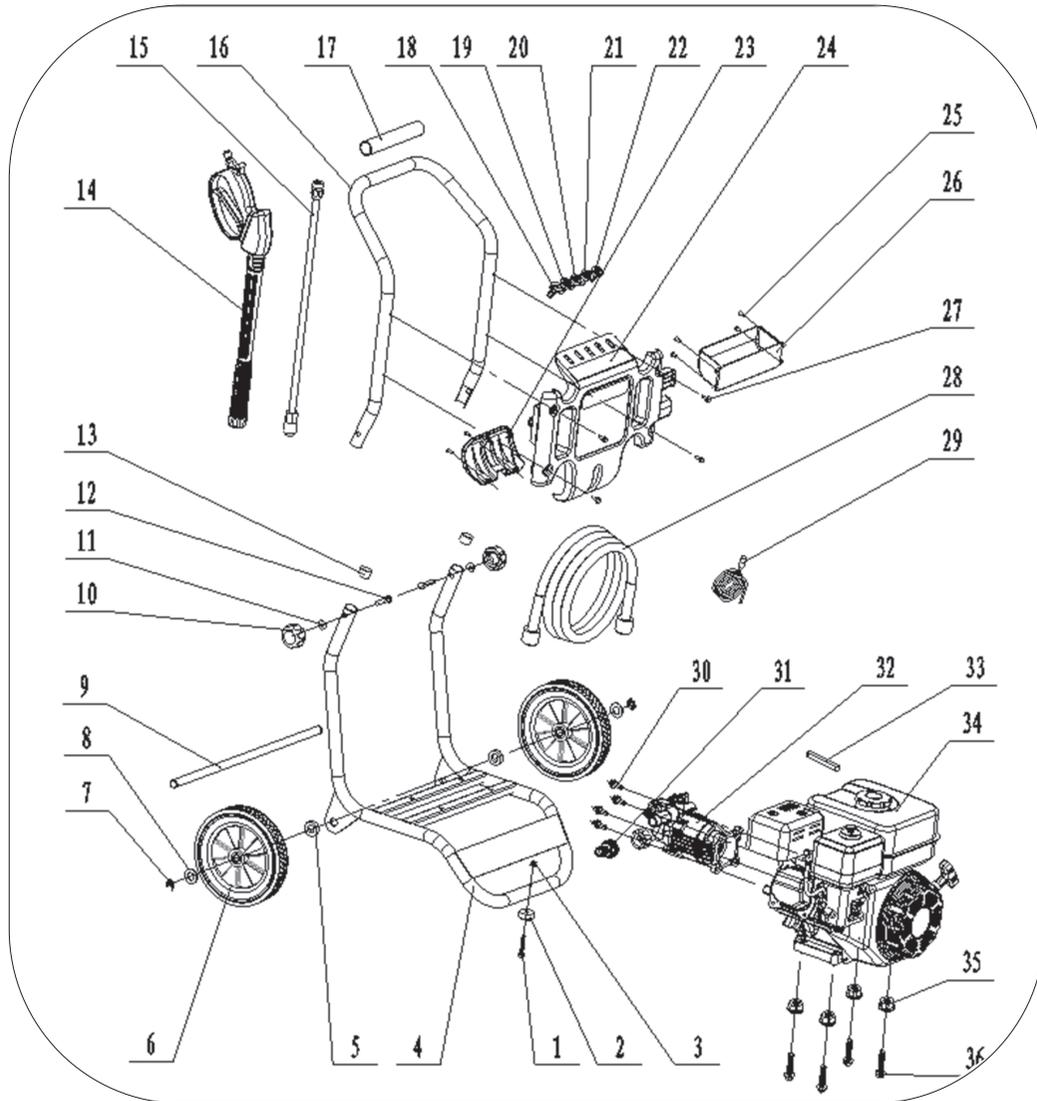
MAIN UNIT

Ref. No.	Description	SIP Code	Ref. No.	Description	SIP Code
1.	Bolt (M6 x 40)	PW08-00320	17.	Handle cover	PW08-00336
2.	Front foot	PW08-00321	18-22.	Nozzle set	72809
3.	Nut (M6)	PW08-00322	23.	Rear cover	PW08-00337
4.	Frame	PW08-00323	24.	Front cover	PW08-00338
5.	Washer	PW08-00324	25.	Screw (M5x12)	PW08-00339
6.	Wheel	PW08-00325	26.	Tool box	PW08-00340
7.	Wheel clip	PW08-00326	27.	Screw	PW08-00341
8.	Washer	PW08-00327	28.	Hose	PW08-00342
9.	Axle	PW08-00328	29.	Filter	PW08-00343
10.	Knob	PW08-00329	30.	Bolt (M8 x 25)	PW08-00344
11.	Washer	PW08-00330	31.	Inlet connector	PW08-00345
12.	Bolt (M8 x 50)	PW08-00331	32.	Pump	PW08-00346
13.	Frame bung	PW08-00332	33.	Key	PW08-00347
14.	Pistol	PW08-00333	34.	Engine	PW08-00348
15.	Lance	PW08-00334	35.	Nut M8	PW08-00349
16.	Handle	PW08-00335	36.	Bolt (M8 x 34)	PW08-00350

72809 Nozzle set: 0° Red 15° Yellow 25° Green 40° White Chemical Black

EXPLODED DRAWING

MAIN UNIT



SAFETY INSTRUCTIONS...cont



Flammable: The fuel used to run this pressure washer (unleaded petrol) is highly flammable. Never re-fuel the pressure washer whilst it is still running. Store unused fuel safely and away from children and in accordance with local regulations / laws.



Caution: The warnings and cautions mentioned in this user manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied.

GUARANTEE

Guarantee:

This SIP pressure washer is covered by a 12 month parts and labour warranty covering failure due to manufacturers defects. This does not cover failure due to misuse or operating the pressure washer outside the scope of this manual - any claims deemed to be outside the scope of the warranty may be subject to charges including, but not limited to parts, labour and carriage costs.

This guarantee does not cover consumables such as filters, spark plugs & oil etc.

In the unlikely event of warranty claims, contact your distributor as soon as possible.



Note: Proof of purchase will be required before any warranty can be honoured.

TECHNICAL SPECIFICATIONS

Model	Tempest TP550/206
Part number	08918
Maximum Pressure	207bar (3000psi)
Maximum Water Flow Rate	545 l/hour
Hose Length	7 Metres
Engine type	4-stroke, single cylinder, air cooled, OHV
Engine size	7 HP
Fuel type	Unleaded petrol
Fuel tank capacity	3.6 Litres
Oil Type (engine)	SAE 10w30
Oil Capacity (approx.)	0.6 Litres
Oil Type (high pressure pump)	85w90
Sound power (LwA)	109 dB(A)
Net. Weight	28kg

TROUBLESHOOTING

Symptom	Possible Cause	Possible Solution
<ul style="list-style-type: none"> Engine Will Not Start. 	<ul style="list-style-type: none"> No fuel. Low oil level. Choke is not in the correct position. Back pressure in the pumping system. 	<ul style="list-style-type: none"> Put fuel into fuel tank. Add oil to the engine. Slide the choke lever to the correct position. Press and hold the trigger to release the pressure.
<ul style="list-style-type: none"> Unit Does Not Produce High Pressure Output. 	<ul style="list-style-type: none"> Diameter of inlet hose too small. Water supply is restricted. Not enough flow / pressure from inlet hose. Inlet filter is clogged. Black low pressure nozzle is fitted. 	<ul style="list-style-type: none"> Replace the inlet hose with a larger one. Check inlet hose for kinks or leaks etc. Ensure tap is fully open; shorten the length of inlet hose. Check the inlet filter and clean as necessary. Replace the nozzle with a higher pressure one.
<ul style="list-style-type: none"> No Detergent Through Nozzle. 	<ul style="list-style-type: none"> Detergent hose not connected to the machine correctly. Detergent too thick. Detergent pipe filter is blocked. Nozzle, other than the black low pressure nozzle fitted. Damaged, blocked or kinked detergent suction hose. 	<ul style="list-style-type: none"> Check connection to machine. Dilute the detergent. Check and clean filter as necessary. Fit the black, low pressure nozzle. Check hose for kinks, blockages or damage; Replace as necessary.

MAINTENANCE INSTRUCTIONS...cont

CHECK THE FUEL TANK FILTER

Check The Fuel Tank Filter (periodically).

Just under the fuel cap is a fuel filter, check this filter periodically and remove any contaminants which may have accumulated.

1. Remove the fuel tank cap and filter.
2. Clean the filter and, if damaged replace.
3. Insert the filter back into place.
4. Ensure the tank cap is tightly secured.

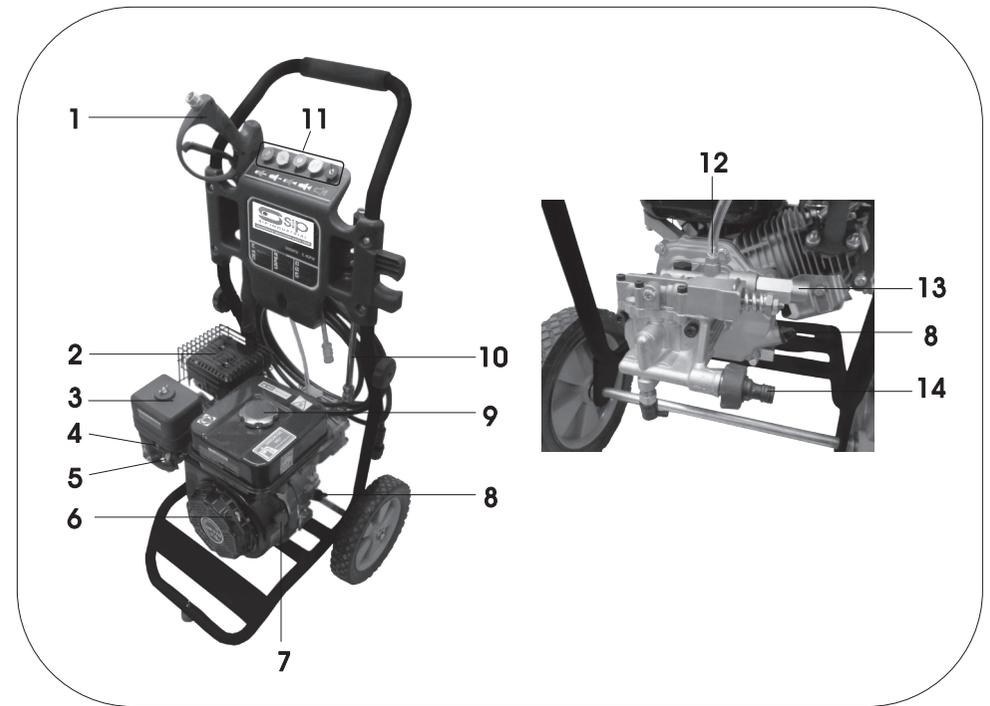
TRANSPORTATION AND STORAGE

To prevent fuel spillage when transporting or during temporary storage, the pressure washer should be stored upright in its normal operating position, ideally with all of the fuel removed and with the engine switch off.

Long Term Storage (1 month or greater).

1. Be sure the storage area is free of excessive humidity and dust and is not so cool that any water inside the pressure washer could freeze.
2. Completely drain the fuel from the tank. Open the fuel valve, start the engine and operate it in the idle position until all remaining fuel is used and the engine stops automatically.
3. Discharge the oil.
4. Remove the spark plug and fill the cylinder with 1 tablespoon of fresh oil. Pull the starting cord 3-4 times to discharge the remaining oil then reinstall the spark plug.
5. Pull the starting cord slowly until the resistance is strong, this indicates that the piston is moving to the top of the compression stroke and the valves will be closed.
6. Ensure that there is no water left in the system by holding the trigger open and blowing compressed air through the water inlet until all of the water has been removed from the system.

GETTING TO KNOW YOUR PRESSURE WASHER

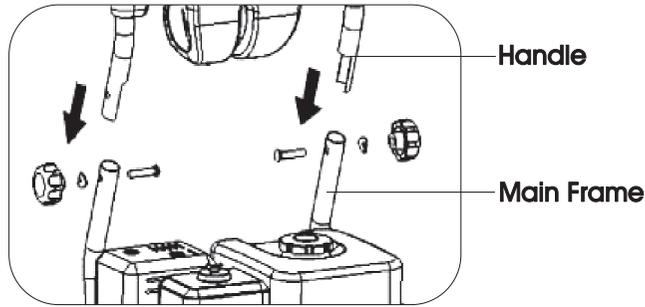


Ref. No.	Description	Ref. No.	Description
1.	Pistol	8.	Oil Filler / Dipstick
2.	Exhaust	9.	Fuel Cap
3.	Air Filter	10.	Lance
4.	Choke	11.	Nozzles
5.	Fuel Tap	12.	Detergent Inlet
6.	Recoil Starter	13.	Water Outlet
7.	Engine On/Off Switch	14.	Water Inlet

ASSEMBLY INSTRUCTIONS

FITTING THE HANDLE TO THE FRAME

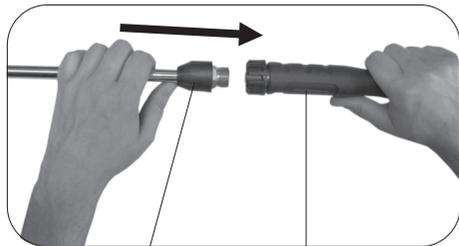
- ⇒ Slide the handle assembly over the main frame.
- ⇒ Ensure that the holes line up and secure in place with the bolt, washer and hand wheel as shown.



Note: Ensure that the square section of the bolt sits in the hole on the inside of the frame; This will stop the bolt from spinning and make tightening much easier.

CONNECTING THE HOSE / PISTOL / LANCE

- ⇒ Push the threaded section of the lance into the threaded section of the pistol assembly (see below, left).
- ⇒ Turn the threaded section of the pistol to fully secure.
- ⇒ Fit one end of the high pressure hose to the fitting on the pistol assembly (see below, right).
- ⇒ Turn the fitting on the hose clockwise to fully secure.



Lance Pistol



Pistol Hose

- ⇒ Now push the other end of the high pressure hose into the water outlet (see page 10).
- ⇒ Turn the fitting on the hose clockwise to fully secure.

MAINTENANCE INSTRUCTIONS



Caution: Always turn off the pressure washer and allow to fully cool before carrying out any maintenance procedures.

CHANGING THE OIL

Change The Engine Oil (every 50 hours of use).

1. Turn the oil filler cap counter clockwise and remove from the crankcase.
2. Loosen and remove the oil drain bung and allow the oil to drain into a suitable container.
3. Refit and tighten the oil drain bung once all of the oil has drained.
4. Fill the crankcase to the max level with fresh oil (see page 11); we recommend the use of SAE 10W30 oil.
5. Refit the oil filler cap.

CLEAN OR REPLACE THE AIR FILTER

Clean or Replace The Air Filter (every 50 hours of use)

1. Remove the air filter cover screws.
2. Remove the air filter cover.
3. Remove the air filter element.
4. If the air filter is damaged contact your local distributor to purchase a replacement, If the filter is dirty wash the filter in a solution of warm water and mild detergent and rinse thoroughly. Leave the filter to dry completely, once dried immerse the filter in clean engine oil and squeeze the filter to remove excess oil - the filter should only be damp with oil.
5. Put the filter back into its original position and refit the air filter cover etc.

CLEAN OR REPLACE THE SPARK PLUG

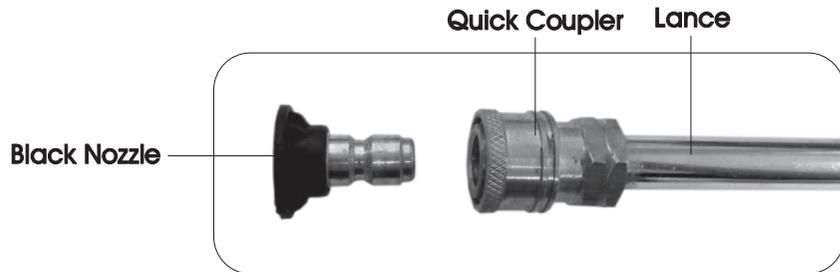
Clean or Replace The Spark Plug (every 50 hours of use).

1. Remove the spark plug cap from the spark plug.
2. Use the supplied spark plug spanner to remove the spark plug.
3. Check for discoloration and remove any carbon build up.
4. Check the spark plug gap, it should be between 0.6 and 0.7mm; Adjust if necessary.
5. Check the overall condition of the plug and replace if damaged.
6. Reinstall the plug and refit the spark plug cap.

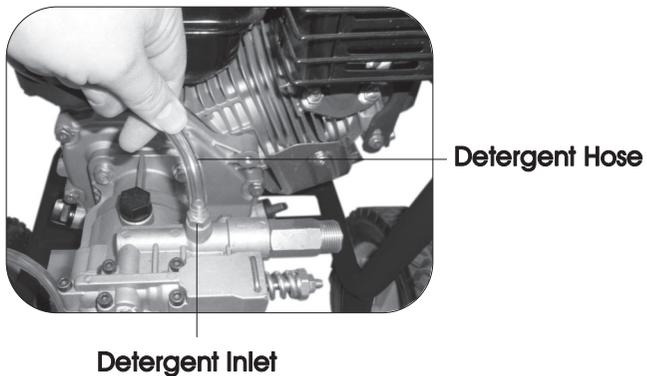
OPERATING INSTRUCTIONS...cont

USING DETERGENT

⇒ To use the detergent function, the black low pressure nozzle has to be fitted.



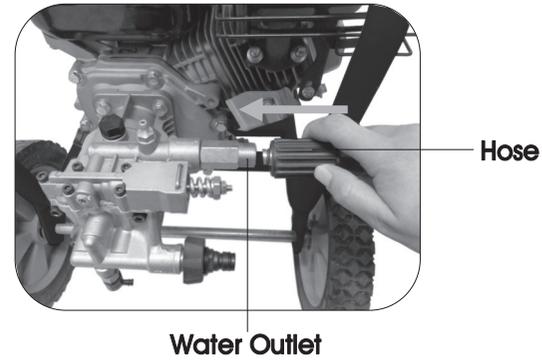
⇒ Ensure that the detergent hose is fitted to the detergent inlet.



⇒ Place the filter end of the detergent hose into the detergent container (not supplied).

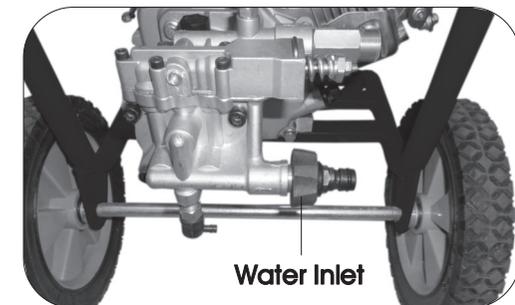
⇒ The detergent will flow through the hose/pistol/lance along with the water when the trigger is pressed.

ASSEMBLY INSTRUCTIONS...cont



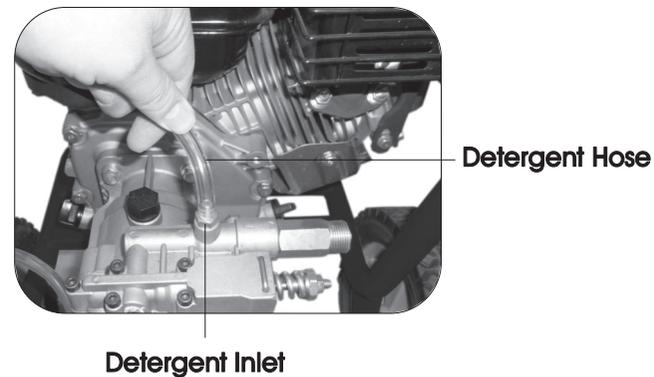
CONNECTING TO A WATER SUPPLY

The pressure washer is supplied with an equivalent hozelock type adaptor. The easiest way to connect to a water supply is to fit the equivalent female fitting to the end of the supply hose. Once connected, the water supply can be turned on.



FITTING THE DETERGENT HOSE

Simply push the detergent hose over the detergent inlet.



OPERATING INSTRUCTIONS



Hot Surfaces: Always ensure that the pressure washer is turned off and allowed to fully cool before any refuelling or maintenance procedures are carried out.

FILLING THE CRANKCASE WITH OIL / CHECKING THE OIL LEVEL



Caution: The pressure washer is drained of oil at the factory prior to shipping. SAE 10W30 oil or equivalent is recommended for this pressure washer.



Note: When checking the oil level; always ensure that the pressure washer is placed on a firm level surface.

Ensure that the pressure washer is on a flat level surface.

- Remove the filler cap / Dipstick by turning it anti-clockwise.
- Slowly pour the oil into the crankcase.
- Check the oil level by pushing the filler cap back into its hole up to the bottom of the threads (do not screw the cap in).
- Once the oil level is between the upper and the lower marks on the oil gauge (see below), refit it and turn clockwise to fully tighten.

The oil level should be checked every 8 hours or daily.

The oil should be **changed** after the first 5 hours of operation; thereafter change the oil after 50 hours of operation or less if the pressure washer is operated under constant heavy loads or in high ambient temperatures.



Filler Cap / Dipstick



OPERATING INSTRUCTIONS...cont

Step 4:

- ⇒ Press and hold the trigger of the of the high pressure pistol; This will mean that the operator is not trying to start the engine with back pressure in the water supply.
- ⇒ Grip the recoil start handle and slowly pull the cord until it engages, then pull sharply until the engine starts.
- ⇒ Once the engine starts the trigger can be released.



Note: It may take a few sharp pulls to get the engine started.



Note: Once the engine has started slowly release the recoil and allow the cord to be retracted.

Step 5:

- ⇒ Once the engine is running and warm enough, slide the choke lever to the right 'RUN' position.

STOPPING THE PRESSURE WASHER

In an emergency:

- Simply turn the engine switch to the off position.

In normal conditions:

- Press the engine switch to the off position.
- Turn the fuel tap to off.
- Remove the water supply.
- Press the trigger to allow as much water as possible out of the system.



Note: As much water as possible should be removed from the pressure washer, particularly if the pressure washer will not be used for an extended period such as when it is in long term storage.

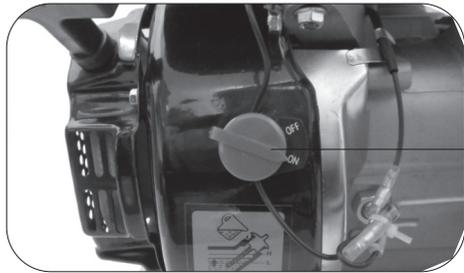


Note: Hold the trigger open and blow compressed air through the water inlet until all of the water has been removed from the system.

OPERATING INSTRUCTIONS...cont

Step 1:

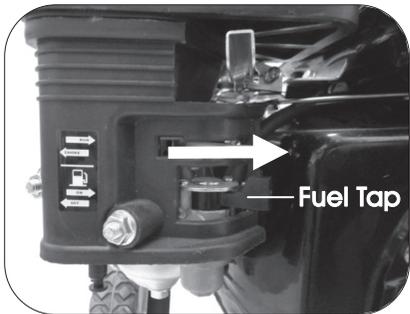
⇒ Turn the main engine switch to the on (1) position.



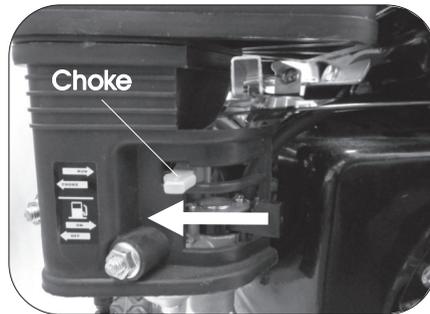
Engine Switch

Step 2:

⇒ Slide the fuel tap to the on position (see below, left).



Fuel Tap



Choke

Step 3:

⇒ Slide the choke lever to the left (see above, right).



Note: The choke may not be needed if the engine is already warm or the ambient temperature is hot.

OPERATING INSTRUCTIONS...cont

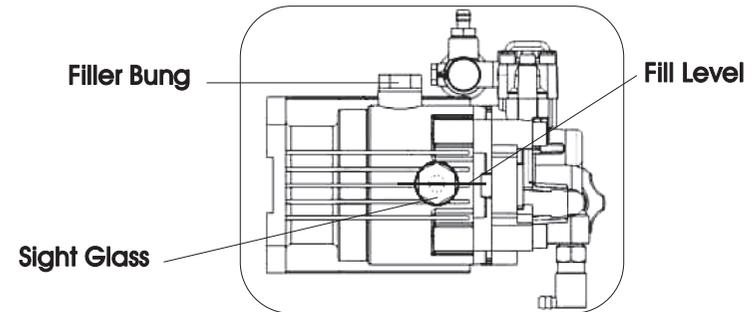
FILLING THE PUMP WITH OIL / CHECKING THE OIL LEVEL



Note: The pressure washer is shipped with oil in the pump, but the level should be checked prior to operation.



Note: If the oil needs to be topped up / replaced, 85w90 oil should be used.



To check the oil level; look at the sight glass on the side of the pump - The oil should be level with the middle of the sight glass.

If the oil level is low; Unscrew the filler bung and slowly pour 85w90 oil into the pump until it is at the correct level.
Refit the filler bung.



Caution: Ensure the oil level is maintained; Failure to do so will invalidate any warranty you may have.

FILLING THE PRESSURE WASHER WITH FUEL



Flammable: The fuel used to run this pressure washer (unleaded petrol) is highly flammable. Never re-fuel the pressure washer whilst it is running. Do not re-fuel near naked flames or other possible ignition sources.

OPERATING INSTRUCTIONS...cont



Note: *Never* overfill the fuel tank; leave a small air gap at the top.
Fuel capacity: Approx. 3.6 Litres.



Note: When re-fuelling always ensure that the fuel filter (supplied) is in place under the filler cap, as foreign matter or debris will cause damage to the engine and greatly reduce the life of the pressure washer.



To Fuel / re-fuel the pressure washer:

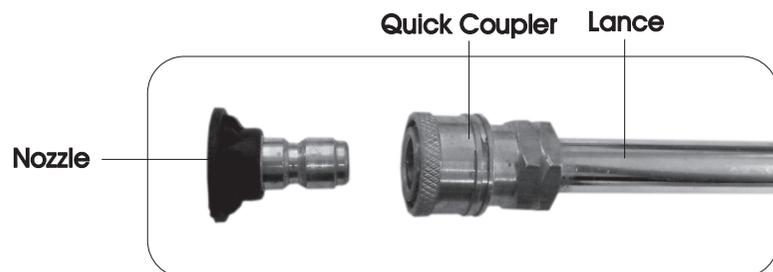
1. Remove the fuel cap.
2. Carefully pour the petrol into the tank to the desired level and refit the fuel cap.
3. Remove any spilt fuel from the pressure washer and surrounding area to avoid any risk of fire.

FITTING / CHANGING NOZZLES



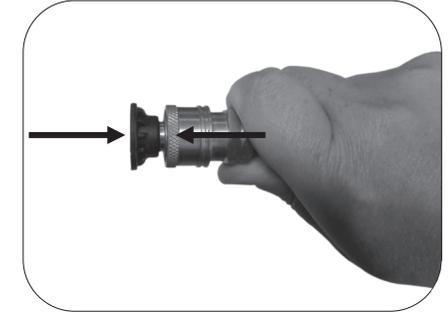
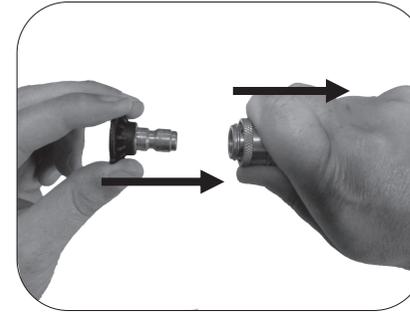
Note: Ensure that the trigger is in the "off" position when changing nozzles.

The low pressure (black) nozzle should be fitted to when starting the engine.



OPERATING INSTRUCTIONS...cont

Pull back on the quick coupler connection at the end of the lance (see below, left). Push the nozzle into the quick coupler connection and allow the connector to spring back; This will hold the nozzle in position (below, right).



Once the engine is running, follow these instructions to fit the required nozzle.

STARTING THE ENGINE



Note: *Always* fit the low pressure (black) nozzle and hold the pistols trigger 'open' **every time** the engine is started; This will ensure that the operator is not trying to start the engine against back pressure.



Familiarize yourself with the main controls for starting the engine (above).