793-1206

SW2010PHR Washer
User Manual



Product id & serial number information

SW Series Washer User Manual

This manual and any other literature supplied should be read thoroughly before assembling and operating the Washer. Pay particular attention to any instructions relating to safety, and the starting, stopping and maintenance of the Washer. Following these instructions will ensure operator safety and prolong the life of the Washer.

This manual should be kept for future reference as it contains important safety, user and maintenance information. The model and serial number on the cover of this booklet must be quoted should you need to contact the dealer or manufacturer regarding usage, maintenance and warranty queries.

Recommended Safety Standards & Directives

This manual highlights certain safety measures which should be taken in to consideration when using the Washer. However, each contractor and operator should make their own risk assessments whilst considering their individual application and environment and ensure the user is properly trained and wearing protective clothing to the required regulatory standards. We recommend visiting the Health and Safety Executive website at www.hse.gov.uk to be properly informed on best practice whilst operating Pressure Washers in the UK.

Contents

		Page
1	Environmental Protection	1
2.	Safety Information	1-2
3.	Model Information	2
4.	Component & Accessory Identification	3
5.	Pre-Operation Set Up	4
6.	Start Up / Shut Down Procedure	5
7.	Operating Information	5-6
8.	General Maintenance Information	6
9.	Storage Information	7
10.	Troubleshooting	7-8
11.	Warranty Information	8-9
12.	EC Declaration of Conformity	10

1. Environmental Protection



Old appliances contain valuable materials that can be recycled; these should be sent for recycling. Batteries, oil, and similar substances must not enter the environment. Please dispose of your old appliances using appropriate collection systems.

Please do not release engine oil, fuel oil, diesel and petrol into the environment. Protect the ground and dispose of used oil in an environmentally-clean manner.



The packaging material can be recycled. Please do not throw the packaging material into household waste; please send it for recycling.

2. Safety Information

Warning - Engines produce fumes and toxic gases.

Only operate outdoors or in a sufficiently well ventilated area.

Warning – Fuel vapours are flammable.

Allow unit to cool before refuelling at a safe distance from naked flames, ignition sources & heat. Refer to engine manufacturer's manual.

Warning – Washers can cause harm to people, animals & property.

They should only be used by properly trained operators wearing suitable protective eyewear, clothing, and non-slip footwear and in a safe, open environment.

Warning – Poorly maintained components can lead to injury.

Before every period of use ensure the Washer is in good working order. All loose connections should be tightened and worn or damaged components should be replaced before use.

Warning – The Washer is performance set at factory.

Do not adjust the engine governor or Washer valves unless qualified to do so. Over loading of engine and components can lead to equipment failure, personal injury and will void the warranty.

Warning – Damage to Washer can occur if left running.

Do not leave the Washer running in bypass for extended periods as heat build-up can damage the pump. Do not leave unit running unattended.

Warning – Never pump flammable or explosive liquids.

The Washer must only be used with liquids compatible with the pump, component & accessories.

Warning – Chemicals can damage the pump and components.

The Washer must be flushed through with clean water after every period of use as chemicals and detergents can corrode the components.

THE MANUFACTURER CANNOT BE HELD RESPONSIBLE FOR ANY HARM OR DAMAGE CAUSED BY DISREGARDING THE DESIGNATED USES OF THIS MACHINE, ITS INSTRUCTIONS AND WARNINGS INDICATED IN THIS BOOKLET.

3. Model Information

The SW2010PHR SW Series Washer has been designed and manufactured for the wash down of machinery, vehicles, buildings, facades, tools etc using clean, soft water at a maximum of 40°C and suitable detergents.

It should not be used for washing electrical equipment, people, animals and surfaces that are loose and easily damaged.

Part No.	Engine	Drive	Bypass Type	Lpm	Bar	SPL LwA dB	GSPL LwA dB
SW2010PHR	Petrol GX120	Direct drive via coupling	Return to Tank	20	10	107	111

SPL = Sound Power Level on equipment representative for this type.
GSPL = Guaranteed Sound Power Level for this equipment

4. Component & Accessory Identification

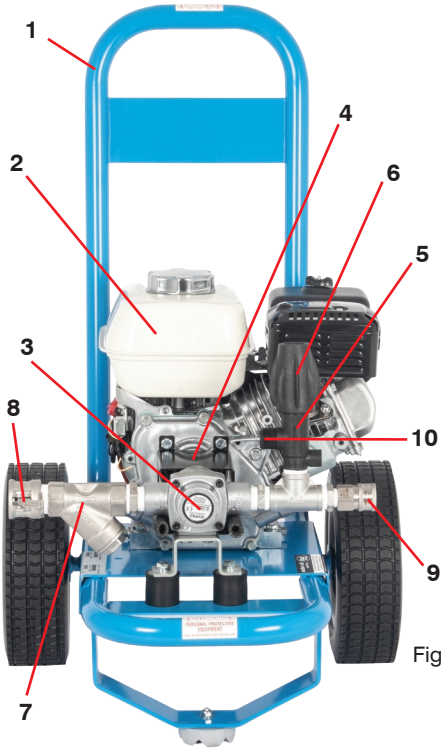


Figure 1. Washer Components

1	Trolley with 10" wheels
2	Engine
3	Pump
4	Drive coupling guard
5	Adjustable pressure regulator
6	Pressure adjusting knob
7	Inlet filter
8	Inlet feed coupling
9	High pressure delivery outlet
10	Bypass outlet



Figure 2. Standard accessories

11	Suction hose and filter
12	Bypass hose
13	25m delivery hose
14	Gun & lance assembly
15	0°, 15°, 25° & 40 ° quick release nozzles

5. Pre-Operation Set Up

- Unpack and make sure that the Washer is complete and undamaged. If the Washer appears damaged in any way, do not use the machine and consult your dealer.
- Check engine oil is at correct level as specified in the engine manufacturer's handbook.

Warning – Engines are not shipped filled with oil

The engine will not start until oil is added. Incorrect engine oil level can result in serious damage.

- Connect the suction hose & filter assembly (item 11, fig 2) to the inlet feed coupling (item 8, fig 1). Ensure the connection has no air leaks and submerge the filter in water supply tank. For optimum performance ensure the supply tank is above the Washer to aid priming and water supply. Ensure the filter is always below the water level.
- Connect the bypass hose (item 12, fig 2) to the bypass outlet on the pressure regulating valve (item 10, fig 1) and put other end in to the top of the water supply tank.
- Connect the delivery hose (item 13, fig 2) to the delivery outlet (item 9, fig 1).
- Connect the gun and lance assembly (item 14, fig 2) to the delivery hose
- Fit desired quick release nozzle (item 15, fig 2) to the lance assembly outlet. The Washer is supplied with a selection of nozzles to give different fluid projection.

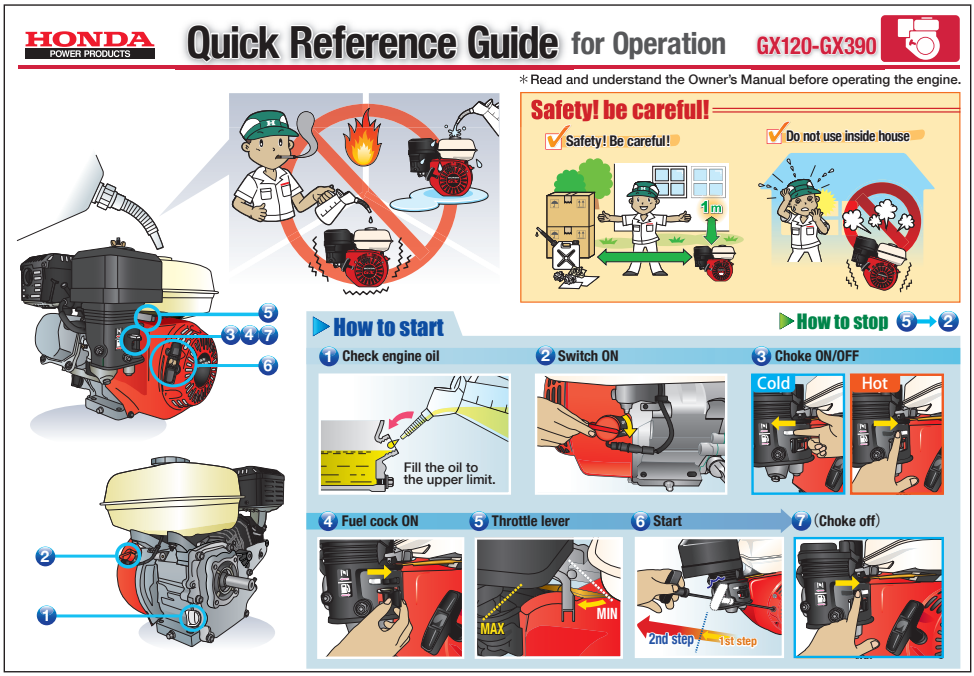


Figure 3. Piped up washer

6. Engine Start Up / Shut Down Procedure

- Consult the accompanying Honda user manual for full engine checks and start up and shut down procedure

Note – Before starting and after stopping the Washer depress the lance trigger to release system water pressure.



Warning – Chemicals can damage the pump and components.

The Washer must be flushed through with clean water after every period of use as chemicals and detergents can corrode the components.

7. Operating Information

Initial Priming

- Ensure the suction filter is fully submerged in the supply tank
- Hold lance trigger open and wait for water to make it's way up the suction hose and in to the Washer.
- After initial priming from the water supply tank the Washer is ready to run.

General Use

- Open and close the lance trigger to start/stop the flow of water as required.
- The washer is fitted with a return-to-tank pressure regulating valve which bypasses excess fluid back to the supply tank during normal use and when the lance trigger is closed

NOTE – It is normal for a small amount of water to be bypassing even when the lance trigger is open.

- The pressure can be adjusted using the pressure adjusting knob (item 6, fig 1) on the pressure regulating valve.
- The Washer is supplied with a selection of nozzles to give different fluid projection.

⚠ Warning – Risk of damage to pump

Do not let the pump idle in bypass for long periods of time. Never leave the Washer running unattended.

8. General Maintenance Information

⚠ Warning – Danger of personal injury.

Disconnect/remove the engine spark plug and ensure trapped pressure is released from the delivery hose before carrying out Washer maintenance. All service/maintenance tasks should be undertaken by a qualified technician.

Activity	Daily	Initial 50 hours or 3 months	Every 100 hours or 12 months
Inspect / top up engine oil levels	✓		
Inspect all hoses and connections for tightness and damage	✓		
Inspect all auxiliaries & accessories tightness and damage	✓		
Inspect/change nozzle jets	✓		✓
Clean water inlet filters	✓		
Change Oil Refer to engine manufacturer's manual for oil change & service intervals			
Inspect/change engine drive key			✓

Refer to the pump and engine manufacturer's manuals for more information of service and maintenance.

9. Storage Information

The Washer & accessories should be stored in a dry and frost proof location. Frost can lead to serious component damage which is not covered by warranty.

Disconnect all hoses, lances and accessories and drain water.

Crank the engine over using the recoil start to expel water from pump.

Ensure all equipment is clean and dry.

When storing unit for extended periods of time add a fuel stabiliser to the fuel or drain the fuel from the tank. Refer to engine manufacturer's manual for information on how to prepare the engine for storage

10. Troubleshooting

General Engine Troubleshooting

Refer to manufacturer's manual for full engine troubleshooting information.

Problem	Possible Cause	Remedy
Engine will not start	Engine switch in OFF position	Switch to ON position
	No or low oil level in engine	Fill engine crankcase to required level
	No or low fuel level	Fill fuel tank
	Stale or contaminated fuel	Drain fuel tank and replace with fresh fuel
	Bad spark	Check HT lead or replace spark plug
	Over-choking	Open choke and crank engine over
Engine falters or not running smoothly	Choke is opened too soon	Close choke until engine runs smoothly
Engine shuts down during operation	Out of fuel	Fill fuel tank
	No or low oil level in engine	Fill engine crankcase to required level
Engine lacks power	Throttle not fully open	Open throttle
	Dirty air filter	Replace air filter

Washer & Pump Troubleshooting

Refer to manufacturer's manual for full pump troubleshooting information.

Problem	Possible Cause	Remedy
Failure to produce pressure; Failure to produce flow; Fluctuating pressure; Chattering/ noisy; Loss of pressure; Vibration in lance/high pressure hose	No nozzle fitted in lance assembly outlet	Fit desired nozzle
	Pressure regulator valve backed off	Wind adjuster knob in to pre-set maximum
	Blocked / worn nozzle	Clean / replace nozzle
	Leaks in delivery line	Tighten connections / replace damaged accessories
	Blockage in delivery line	Check / clear delivery outlet & hose
	Pump sucking air	Tighten inlet hose / filter connections
		Check suction hose & filter fully submerged
	Inadequate water supply	Increase water supply
	Pump not primed	Slow engine speed to aid priming
	Obstructed water supply	Clean suction/inlet filters
		Check suction hose not kinked
	Water supply is too hot	Provide cooler water supply
		Do not leave unit running in bypass for long periods
	Worn or faulty pump	Seek professional advice

11. Warranty

Limited Warranty Supplied by Dual Pumps Ltd

For warranty terms refer to Section 7 of our Terms and Conditions at
www.dualpumps.co.uk/company/legal
or
scan the QR code



12. EC Declaration of Conformity

Declaration of Conformity
Equipment Type
SW2010PHR Washer
Relevant EU Directives
2006/42/EC - Machinery Directive
2000/14/EC - Outdoor Noise Directive
2014/30/EU - Electromagnetic Compatibility (EMC) Directive
Manufacturer
Dual Pumps Ltd, Unit 8 Hudson Road, Saxby Road Industrial Estate, Melton Mowbray, Leicestershire LE13 1BS. United Kingdom
Person authorised to compile the technical file & declaration
Tom Herridge, Product Manager
Signed -  CE

We hereby declare that the machine described above complies with the relevant basic safety and health requirements of the EU Directives, both in its basic design and construction as well as in the version put into circulation by us. This declaration shall cease to be valid if the machine is modified without our prior approval.

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