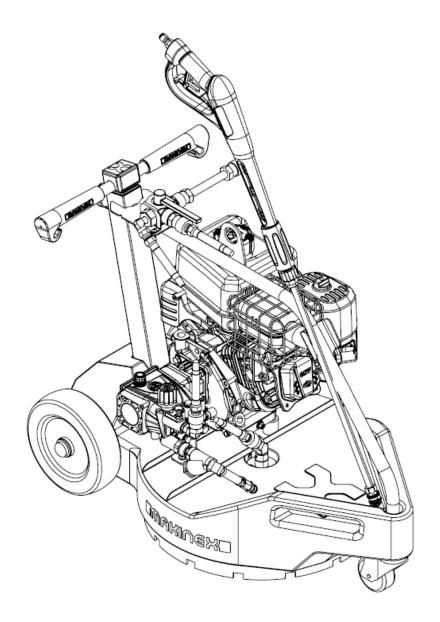


DUAL PRESSURE CLEANER

DPC-2200



OPERATOR'S MANUAL

Rev 0821

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INTRODUCTION

Thank you for purchasing a MAKINEX product.

This manual provides information and procedures to safely operate and maintain the **Dual Pressure Cleaner DPC-2200 Range**. For your own safety and protection from injury, carefully read, understand and observe the safety instructions described in this manual.

Keep this manual or a copy of it with the machine. If you lose this manual or need an additional copy, please contact MAKINEX. This machine is designed and built with user safety in mind; however, it can present hazards if improperly operated and serviced. Please follow the operating instructions carefully. If there are any questions regarding operating or servicing of this machine, please contact MAKINEX.

The information contained in this manual was based on machines in production at the time of publication. MAKINEX reserves the right to change any portion of this information without notice.

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Any type of reproduction or distribution not authorised MAKINEX represents an infringement of valid copyrights and will be persecuted. We expressly reserve the right to make technical modifications, even without due notice, which aim at improving our machines or their safety standards.

DISCLAIMER

MAKINEX and its affiliates take no responsibility for any damage, injury or death resulting from the incorrect or unsafe use of this product. Use of this product should be undertaken by competent persons only. It is the operator's responsibility to ensure that the following safety procedures are followed. If you are unsure, do not operate this product.

Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty inquiries

DATE OF PURCHASE

PURCHASE LOCATION

ABOUT THIS MANUAL

This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment. Follow all safety messages to avoid or reduce the risk of serious injury or death.

KEY TERMS

READ CAREFULLY	READ CAREFULLY – refers to <i>important information</i> that should be paid careful attention.
	CAUTION - indicates a potential hazardous situation which, if not avoided, <i>may</i> result in minor or moderate injury
WARNING	WARNING – indicates a potentially hazardous situation which, if not avoided, <i>could</i> result in death or serious injury
	DANGER – indicates an imminently hazardous situation which, if not avoided, <i>will</i> result in death or serious injury
PROHIBITED	PROHIBITED – identifies actions that should never be carried out by anyone interacting with the machine.
These safety wa	arnings do not eliminate all possible hazards that could occur

These safety warnings do not eliminate all possible hazards that could occur therefore it is essential to use common sense and to strictly follow any instructions to prevent accidents.

SAFETY INFORMATION

$\boldsymbol{\wedge}$	Read this manual thoroughly before operating your pressure cleaner. Failure to follow instructions could
WARNING	result in serious injury or death

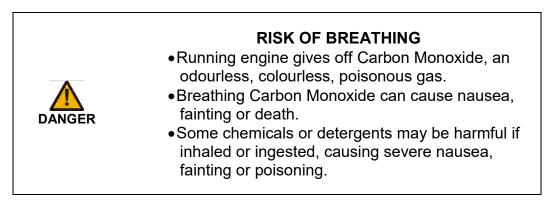


RISK OF EXPLOSION OR FIRE

 Fuel and its vapours are extremely flammable and explosive

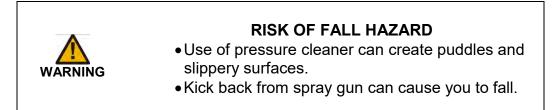
• Fire or explosion can cause severe burns or death

- ALWAYS shut off engine and allow it to cool a least 2 minutes before adding fuel to the tank
- ALWAYS use care in filling tank to avoid spilling fuel. Move pressure cleaner away from fuelling area before starting engine.
- ALWAYS keep maximum fuel level below top of tank to allow for expansion.
- ALWAYS operate and use equipment in well ventilated areas free from obstructions. Equip areas with fire extinguishers suitable for gasoline fires
- ALWAYS keep pressure cleaner a minimum of 1.2m away from surfaces (such as houses, automobiles, or live plants) that could be damaged from muffler exhaust heat.
- **ALWAYS** store fuel in an OSHA approved container, in a secure location away from work area.
- **NEVER** spray flammable liquids.
- In the event of a fuel spill, ensure machine and entire area is cleaned of excess before operation.

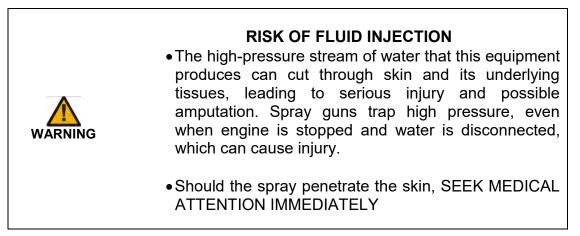


• ALWAYS operate pressure cleaner in a well-ventilated area. Avoid enclosed areas such as garages, basements etc.

- ALWAYS keep exhaust gas from entering a confined area through windows, doors, ventilation intakes, or other openings.
- **ALWAYS** follow manufacturer's recommendations, use a respirator or mask whenever there is a chance that vapours may be inhaled.
- If the operating area becomes enclosed, turn off engine and release system pressure by pulling gun trigger. Immediately leave the affected area.



- Keep operating area clear of all persons, pets and obstacles.
- **DO NOT** operate the product when fatigued or under the influence of alcohol or drugs. Stay alert at all times.
- **DO NOT** operate the machine with missing or broken parts.
- NEVER leave wand unattended while unit is running.
- Keep children away from pressure cleaner at all times.
- **DO NOT** overreach or stand on an unstable support. If you become unstable during use, release the trigger and stop engine if necessary. Re-assess operating area before commencing operation.
- The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces. If the area becomes slippery or unstable, turn off engine and release system pressure by pulling gun trigger. Allow the area to drain and assess when suitable to operate again.
- Be extremely careful if you must use the pressure cleaner from a ladder, scaffolding, or any other off ground location.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury when spray gun kicks back.
- **NEVER** spray near power source.



- ALWAYS point spray gun in safe direction and squeeze trigger, to release high pressure, every time you stop the engine.
- **NEVER** aim spray gun at people, animal, or plants.
- NEVER place hands in front of nozzle.
- Make sure hose and fittings are tightened and in good condition.
- DO NOT allow hose to contact muffler.
- NEVER attach or remove wand or hose fittings while system is pressurised.
- Use only hose and high-pressure accessories rated for pressure higher than your pressure cleaner's psi.
- To relieve system pressure, shut off engine, turn off water supply, and pull gun trigger until water stops flowing.
- DO NOT allow children to operate pressure cleaner.
- NEVER direct the spray jet at any surface that may contain asbestos material.
- **DO NOT** leave spray gun unattended while machine is running.
- **NEVER** use a spray gun which does not have a trigger lock or trigger guard in place and in working order.
- ALWAYS be certain spray gun, nozzles and accessories are correctly attached.
- ALWAYS wear personal protective clothing such as goggles, ear muffs, gloves, and closed foot wear.



RISK OF CHEMICAL BURN

- Use of acids, toxic or corrosive chemicals, poisons, insecticides, or any kind of flammable solvent with this product could result in serious injury or death.
- Wear protective clothing to protect eyes and skin from contact with sprayed material.



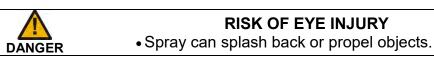
 RISK OF HOT SURFACES
 Contact with hot surfaces, such as engines exhaust components, could result in serious burn.

• During operation, touch only the control surfaces of the pressure cleaner. Keep children away from the pressure cleaner at all times. They may not be able to recognise the hazards of this product.



RISK OF MOVING PARTS • Starter and other rotating parts can entangle hands, hair, clothing, or accessories.

- **DO NOT** wear loose clothing, jewellery or anything that may be caught in the starter or other rotating parts.
- Tie up long hair and remove jewellery.



- ALWAYS wear safety goggles when using this equipment or in vicinity of where equipment is in use.
- Before starting the pressure cleaner, be sure you are wearing adequate safety goggles.
- NEVER substitute safety glasses for safety goggles.

EMERGENCY INFORMATION

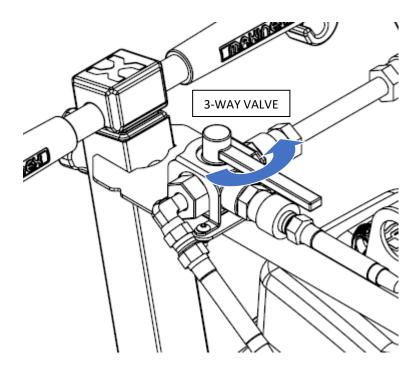
In the event of an emergency, stop the machine immediately.

- 1. This product is fitted with a 'hold to activate' mechanism which is the spray gun trigger. Upon releasing grip, the high-pressure water flow will be automatically stopped.
- 2. To disable the product, turn the red ignition switch to the 'off' position. See picture below. This will immediately stop the engine.
- 3. Further to the above, the water flow can be diverted from the spray gun by turning the 3-way valve to divert the water to the Surface-Cleaner.

Always ensure all safety information is observed before re-commending work.







SAFETY DECALS



PRODUCT DESCRIPTION AND SPECIFICATION

The MAKINEX Dual Pressure Cleaner DPC-2200 Range is a versatile, 2 in 1 compact 2200 psi pressure cleaner. It is designed and engineered to simplify the process of pressure washing. The pressure cleaner includes a combination of a rotary cleaner, a spray gun, a control valve, ten metres of high-pressure hose, heavy duty Italian- made pump, and the reliable Briggs and Stratton XR 950 pull start engine, all mounted on a compact, easy to transport, durable galvanised steel frame.

Applicable Australian standards:

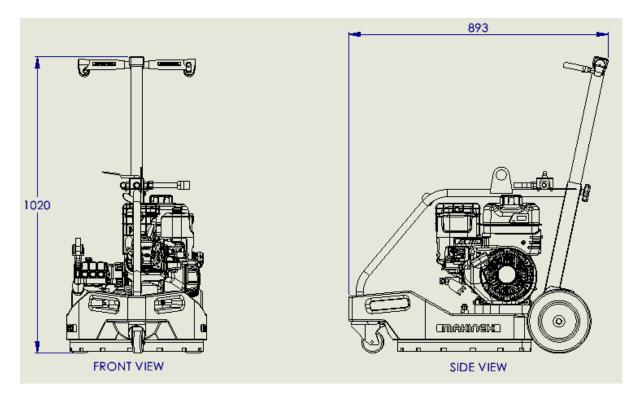
- AS4233.1 High Pressure Water Jetting Part 1. Safe Operation and Maintenance.

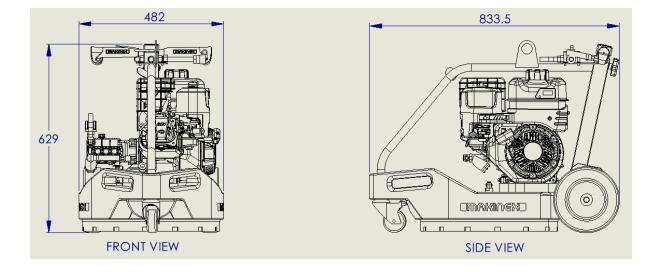
- AS4233.2 High Pressure Water Jetting Part 2. Construction and Performance.

OVERALL MACHINE SPECIFICATIONS		
MODEL	DPC-2200	
OVERALL WEIGHT	40kg/88.2lb	
OVERALL WIDTH	482mm/19.0inch	
HANDLE FOLDED HEIGHT	629mm/24.8inch	
HANDLE EXTENDED HEIGHT	1020mm/40.2inch	
HANDLE FOLDED LENGTH	833.5mm/32.8inch	
HANDLE EXTENDED LENGTH	893mm/35.2inch	
HOSE LENGTH	10m/32.8ft	
PRESSURE OUTPUT	2200psi/152bar	
FLOW RATE	11L/min	
	(3.0 gal/min)	
ENGINE	5.5HP BRIGGS AND STRATTON XR 950 pull start	
GEAR BOX	NONE	
NOISE LEVEL @ HANDLE	92dBA	
NOISE LEVEL @ 7m	88dBA	
SOUND POWER LEVEL (<i>LWA</i>)	109dB	

SURFACE-CLEANER	450mm (18inch)
BALL VALVE	500bar/ 7252psi rated 3-way ball valve
TRIGGER GUN	358.5bar/ 5200psi rated
WAND LENGTH	900mm/35.4inch

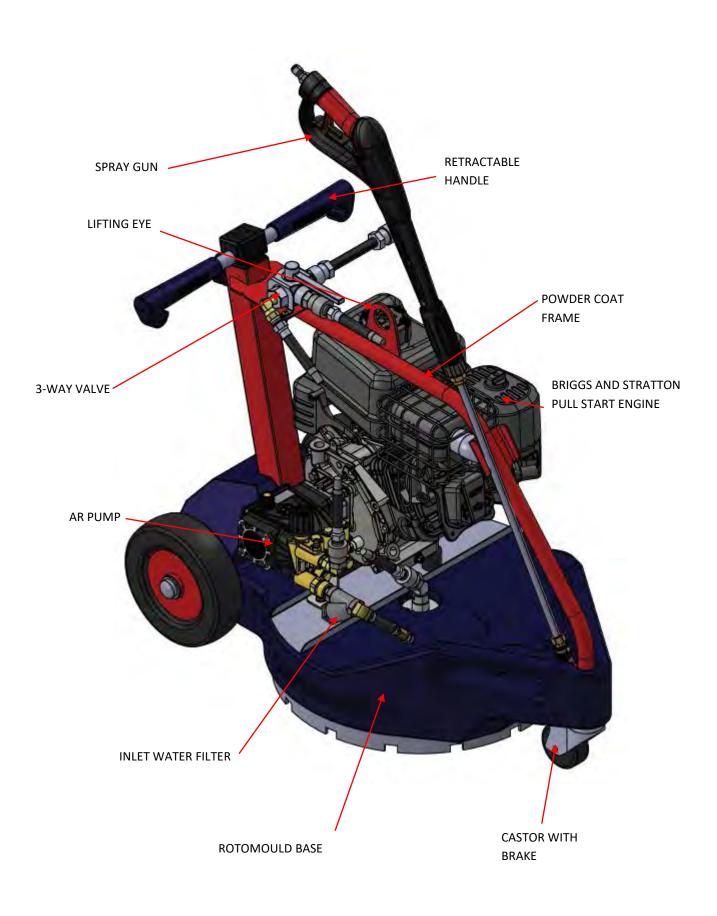
OVERALL MACHINE DIMENSIONS





	PUMP SPECIFICATIONS		
MODEL	DPC-2200 (With JRV3G30)		
PRESSURE OUTPUT MAX	2200 psi/152 bar		
FLOW RATE MAX	11L/min (3.0 gal/min)		
OIL TYPE	10W30		
RPM	2600		
WEIGHT	4kg/8.8lbs		
ENGIN	IE SPECIFICATIONS		
ENGINE TYPE	Briggs and Stratton XR950		
	Air-cooled 4-stroke OHV		
BORE x STROKE	68.3 x 55.9mm/2.7 x 2.2inch		
DISPLACEMENT	208cm ³ /12.7inch ³		
MAX POWER OUTPUT	6.5HP (4.8kW) @ 2600 rpm		
GROSS TORQUE	9.5 lb-ft (12.88Nm) @ 2600 rpm		
PTO SHAFT ROTATION	Counter-clockwise (from PTO shaft side)		
COMPRESSION RATIO	8.5:1		
CARBURATOR	Gravity Feed, Needle and Seat Float		
IGNITION SYSTEM	Electronic Magnetron Ignition Module		
STARTING SYSTEM	Recoil Starter		
LUBRICATION SYSTEM	Splash		
GOVERNOR SYSTEM	Mechanical		
OIL CAPACITY	0.6L (0.63 US qt)		
FUEL TANK CAPACITY	3.1L (3.3 U.S. qts)		
FUEL	Unleaded 86 Octane or higher		
DRY WEIGHT	16kg (35lbs)		
RUN TIME (Full tank)			
Full Load 75% Load	1.5 hours 2.25 hours		
50% Load	2.75 hours		

CONTROLS AND FEATURES



FEATURES

Valve for switching between surface cleaner and wand

Durable powder coated frame

Easily manoeuvrable with front swivel castor

Internal Bypass Valve to protect seals from overheating

Thermal dump valve for over heat discharge

Multi cushion isolators for vibration reduction

Detachable 10m high pressure hose

Spray gun included and mounted on frame

Built in 2200 psi Surface-Cleaner

Compact design for easy storage and transport

Lifting point for transportation

OPERATION

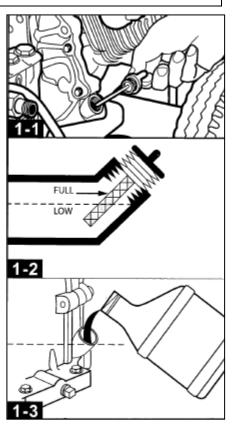
OIL LEVEL CHECK



Check the engine oil level with the engine stopped and in a levelled position

- 1. Clean area around oil fill and remove oil cap.
- 2. Check the dipstick to ensure there is enough oil.
- If there is not enough oil, using oil funnel (optional), slowly pour contents into oil fill opening.
- 4. Replace oil fill cap and tighten.
- For pump oil, see 'CHECKING PUMP OIL LEVEL' in maintenance section of this manual.

NOTE: IMPROPER treatment of pressure cleaner can damage it and shorten its life. DO NOT attempt to start the engine before it has been properly serviced with the recommended oil. This may result in an engine failure.



NOTE: Refer to XR 950 Manual for more in-depth instructions

NOTE: New machines will be pre-oiled from MAKINEX with: **Power Equipment Engine Oil – SAE 10W-30, API SJ**

REFUELING



FAILURE TO USE FUEL AS RECOMMENDED IN THIS MANUAL WILL VOID WARRANTY

- **DO NOT** use unapproved gasoline such as ethanol-based fuel.
- **DO NOT** mix oil with gasoline.
- DO NOT modify engine to run on alternate fuels.



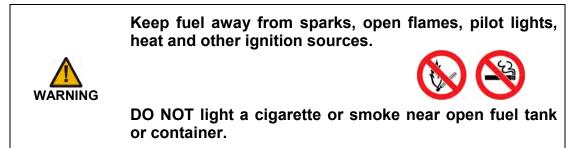
Fuel and fuel vapour are extremely flammable and explosive. Fire or explosion from misuse of fuel can cause severe burns and even death.





Always ensure that fuel tanks are filled outdoors.

- 1. Turn engine **OFF** and let it cool for at least two minutes before removing fuel cap.
- 2. Loosen fuel cap slowly to release pressure.
- 3. Slowly add unleaded gasoline to fuel tank. **DO NOT** fill fuel above baffle to allow for appropriate space fuel expansion.
- 4. Wait for spilled fuel to evaporate before starting the engine.



OPERATING YOUR PRESSURE CLEANER

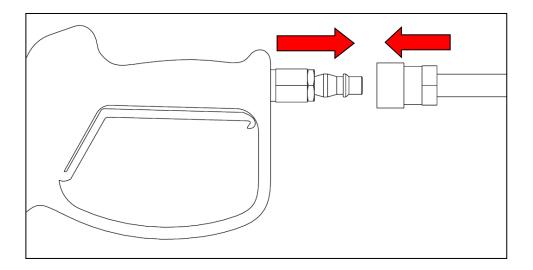
1. HOW TO PRE-START PRESSURE CLEANER

To start your pressure cleaner for the first time, follow these instructions. This information also applies if you let the pressure cleaner sit idle for at least a day.

- 1.1 Place pressure cleaner near an outside water source capable of supplying water at a flow rate at least 5 gallons/19L per minute and no less than 20 psi at pressure cleaner end of garden hose.
- 1.2 Check all high-pressure hose connections are tightly connected to the pump, valve, spray gun and Surface-Cleaner.
- 1.3 Make sure there are no kinks on hoses
- 1.4 Make sure the unit is in a levelled position.

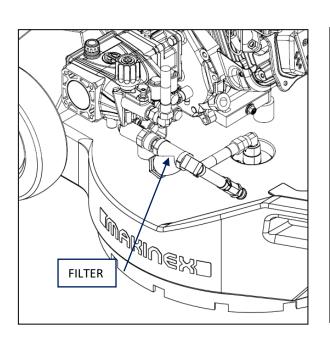
2. ATTACHING HIGH-PRESSURE HOSE TO SPRAY-GUN

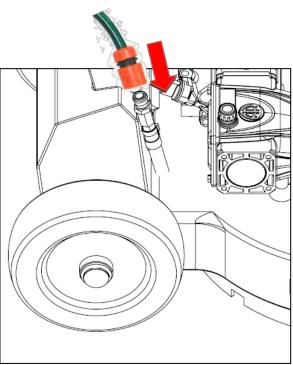
- 2.1 The spray gun is preassembled to a swivel male quick-connect fitting.
- 2.2 Connect the Quick-Connect female fitting from the high-pressure hose to the spray gun as shown by hand, make sure it's a tight fit and the threads are not cross threaded (the connection is a self-sealed one, hence no plumbing is needed)



3. CONNECT GARDEN HOSE TO WATER INLET CONNECTION

- 3.1 Before connecting the garden hose to the water inlet connector, inspect the filter
- 3.2 Run water through your garden hose for 30 seconds to clean out any debris
- 3.3 Release any pressure from spray gun by pulling the trigger.
- 3.4 Connect the garden hose to the water inlet connector (not to exceed 15m/50ft in length and with the inner diameter of hose no less than **13mm**).
- 3.5 Turn on water



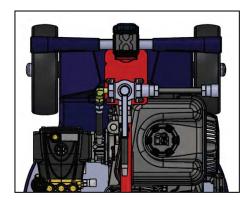


IMPORTANT

DO NOT siphon standing water for the water supply. Use ONLY cold water (less than 37°C/100°F)

4. ADJUST VALVE POSTION TO SURFACE-CLEANER

4.1 Make sure the valve is pointing to the Surface-Cleaner position (as shown on the right) before starting as this makes sure pressure is constantly released before you start the engine and during initial running.



RISK OF EYE INJURY. SPRAY CAN SPLASH BACK OR PROPEL OBJECTS



- Always wear safety goggles when using this equipment or in vicinity of where equipment is in use.
- Before starting the pressure cleaner, be sure you are wearing adequate safety goggles.
- **NEVER** substitute safety glasses for safety goggles.

5. START THE ENGINE

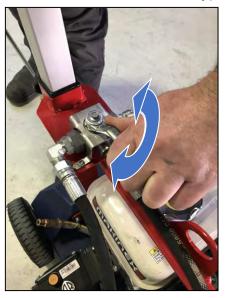
Refer to your Briggs and Stratton XR 950 Engine Operator's manual for more details

IMPORTANT

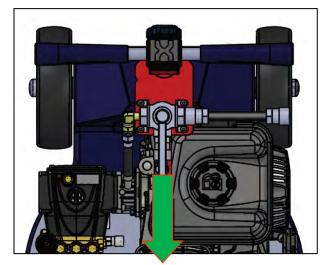
DO NOT run the pump without the water supply connected and turned on. Damage to equipment resulting from failure to follow this instruction will VOID WARRANTY

6. TWO TYPES OF OPERATION

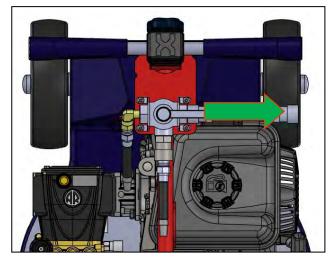
By using the valve, you can choose between two types of operation.



SURFACE-CLEANER VALVE POSITION



SPRAY GUN VALVE POSITION

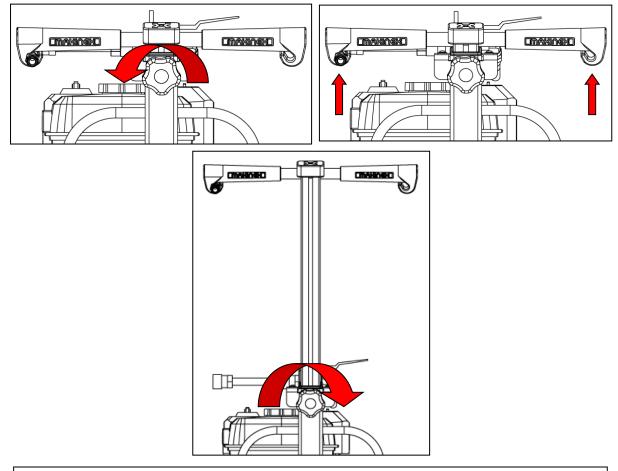


7. <u>NOZZLE</u>

The nozzle on the spray gun that comes with the MAKINEX dual pressure cleaner is a multi-spray pattern Quick Connect nozzle with 0, 15, 25, and 40 degree spray angles as well as a soap and rinse pattern.

The minimum orifice to be used in your Surface-cleaner is half that which is being used in your pressure cleaner. Example: If your pressure cleaner uses a size 5 orifice, you need to use a size 2.5 orifice in your Surface-cleaner.

The nozzles being used should have a 15°-25° spray pattern; anything less than a 15° spray pattern can damage the area being cleaned. Anything more than 25° may not allow the bar to rotate. Nozzles should be screwed into the rotating bar. The spray fan should be parallel to the rotating bar.



8. RETRACTABLE HANDLES

- 9.1 Loosen the thumbscrew by rotating anti-clockwise see above
- 9.2 Lift handle to desired height.
- 9.3 Tighten the thumbscrew by rotating clockwise.

9. STOPPING THE PRESSURE CLEANER

- 10.1 Turn off the engine
- 10.2 Release pressure from spray gun, **ALWAYS** point gun in safe position before pressing trigger.

NOTE: Spray gun traps high water pressure, even when engine is stopped, and water is disconnected.

10.3 Store in a safe area

MAINTENANCE

GENERAL RECOMMENDATIONS:

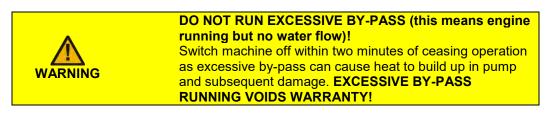
Regular maintenance will improve the performance and extend the life of the pressure cleaner.

The pressure cleaner's warranty does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the pressure cleaner as instructed in this manual and in the engine manual, including proper storage as detailed in Winter Storage and Long-Term Storage.

NOTE: An hour meter is installed on the machine to help with tracking operation hours.

Should you have questions about replacing components on your pressure cleaner, please contact dealer for assistance.

****IMPORTANT****



GENERAL MAINTENANCE

CLEAN DEBRIS

Daily or before use, clean accumulated debris from cleaning system. Keep the unit clean at all times. Keep area around and behind muffler free from any combustible debris. Inspect cooling air slots and openings on the pressure cleaner. These openings must be kept clean and unobstructed.

NOTE: IMPROPER treatment of pressure cleaner can damage it and shorten its life. **DO NOT** spray any objects through cooling slots.

System parts should be kept clean to reduce the risk of overheating and ignition of accumulated debris.

- •Use a damp cloth to wipe exterior surfaces clean.
- •Use a soft bristle brush to loosen caked on dirt, oil, etc.
- •Use a vacuum cleaner to pick up loose dirt and debris.

CHECK AND CLEAN INLET FILTER

Examine the inlet water filter on the pump after every use and clean it if the screen is clogged or replace immediately if screen is damaged.

CHECK HIGH PRESSURE HOSE

The high-pressure hose can develop leaks from wear, kinking, or abuse. Inspect the hose each time before using it. Check for cuts, leaks, abrasions or bulging of cover, damage or movement of couplings. If any of these conditions exist, replace the hose immediately.

WARNING	 The high-pressure stream of water that this equipment produces can cut through skin and its underlying tissues, leading to serious injury and possible amputation. NEVER repair high pressure hose. Replace it. Replacement hose rating MUST exceed
	maximum pressure rating of unit.

CHECK SPRAY GUN

Examine the hose connection to the spray gun and make sure it is secure, and make sure the 'safety lock' is present and attach on the trigger, it helps to prevent any accidental jets when in operation. Replace spray gun immediately if the safety lock is damaged or not functioning.

CHECK WAND

Occasionally, the spray wand can be clogged with foreign materials such as dirt. When this happens, excessive pressure can develop. Whenever the pressure nozzle becomes partially clogged, the pump pressure will pulsate. It should be cleaned immediately cleaned.

NOZZLE MAINTENANCE

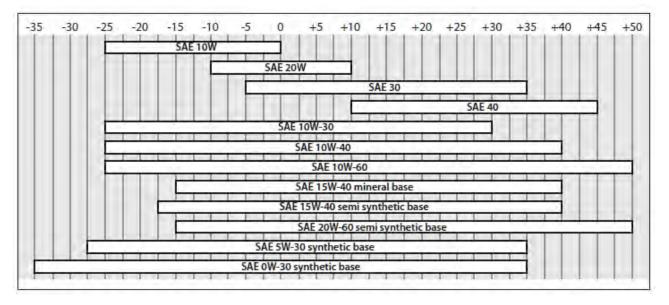
A pulsing sensation felt while squeezing the spray gun trigger may be caused by excessive pump pressure. The principal cause of excessive pump pressure is a spray tip clogged or restricted with foreign materials, such as dirt, etc. To correct the problem, immediately clean the spray tip following these instructions:

- 1. Shut off engine and turn off water supply.
- 2. ALWAYS point spray gun in safe direction, squeeze spray gun trigger to release retained high water pressure.
- 3. Remove spray tip from end of nozzle extension.
- 4. Use a small paper clip to free any foreign material clogging or restricting spray tip of the nozzle.
- 5. Remove nozzle extension from spray gun.
- 6. Using a garden hose, remove additional debris by back flushing water through the nozzle extension.
- 7. Reinstall spray tip into nozzle extension.
- 8. Reconnect nozzle extension to spray gun.
- 9. Make sure garden hose is connected to spray gun and pump. Turn on water.
- 10. Start engine following instructions 'How to Start Your Pressure Cleaner'.
- 11. Test pressure cleaner by operating the spray gun
- 12. Use same nozzle maintenance with the Surface-Cleaner.

If pressure drops off check nozzle for wear. Nozzles should be replaced on a regular basis (suggestion: every month for machines in regular use, every three months for machines used intermittently). Using the machine with the incorrect nozzle size or worn nozzle will **VOID WARRANTY** and can be **DANGEROUS** to operator.

PUMP MAINTENANCE

CHANGING PUMP OIL



The pump is delivered complete with oil, with the characteristics stated on the data plate. When changing the oil, use oil suitable for conditions in the operating environment. The correct lubricating oil viscosity depends on the external temperature. Use the graph to select the degree of viscosity best suited to the temperature of use.

Change oil after first 50 hours of operation and then every 200 hours of operation or every 3 months of regular use, whichever occurs first.

NOTE: When changing pump oil, use only high quality non-detergent oil. Use no special additives.

CHECKING PUMP OIL LEVEL

- Check the oil with the pump level and cold.
- Check the amount of oil through the level gauge (A).
- If necessary, top up with oil with the characteristics specified in the 'lubricants table'.

To top up with oil proceed as described below.

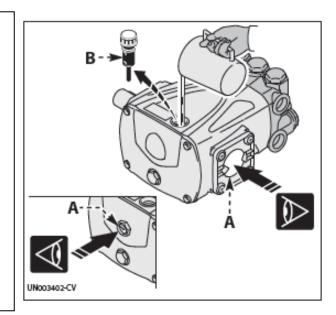
- 1. Unscrew the plug (B) and pour oil in until it is halfway up the level gauge (A).
- 2. Screw on the plug (B).

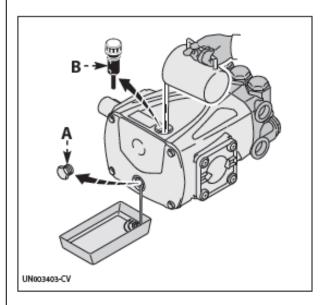
Position the machine so the pump is perfectly level, with the pump slightly warm. Do not release oil into the environment.

Dispose of spent oil in accordance with statutory requirements.

To change the oil, proceed as described below.

- 1. Position a receptacle of suitable capacity to collect the spent oil.
- 2. Unscrew the drain plug (A) and allow all the oil to flow out.
- 3. Screw on the drain plug (A).
- 4. Unscrew the filler plug (B).
- 5. Pour in the fresh oil through the filter hole until the correct level is reached.
- 6. Screw on the filler plug (B)





LENGTHY PUMP LAY-OFFS

If the pump is to be unused for a long time, proceed as described below.

- 1. Run the pump with clean water for a few minutes.
- 2. Operate the pump without water for 10 seconds with the end of the delivery pipeline open to empty the pump and the delivery circuit and prevent scaling.
- 3. Flush the pump with water and solvents authorised by the relevant laws.
- 4. Dry the pump with a pressurised air jet.
- 5. Protect the pump from weather.

PUTTING THE PUMP BACK INTO SERVICE

Before putting the pump back into service after a long period out of use, check the oil level and the tightness of the mounting screws.

SURFACE-CLEANER MAINTENANCE

The Surface-Cleaner must be maintained to ensure correct function and longevity of life.

There are two nozzles attached and they need to be checked before every use and are like nozzle maintenance of the spray gun.

ENGINE MAINTENANCE

See the engine operator's manual for instructions on how to properly maintain the engine.

STORAGE

STORAGE WITH FUEL IN TANK

Gasoline fuel can become stale when stored over **30 days**. Stale fuel causes acid and gum deposits to form in the fuel system or crucial carburettor parts. To keep fuel fresh:

- 1. Add a fuel stabiliser liquid additive to fuel.
- 2. Run engine for a minimum of 2 minutes to allow it to circulate throughout the engine

Draining gasoline is unnecessary if the fuel stabiliser is used according to the instructions that come with it. Run pressure cleaner engine for a minimum of two minutes, after stabiliser is added to fuel, to allow it to circulate throughout the engine. The engine and fuel can be stored up to 24 months.



Fuel and fuel vapour are extremely flammable and explosive. Fire or explosion from misuse of fuel can cause severe burns and even death.

RUST PREVENTION IN CYLINDERS

- 1. Remove spark plug and pour approx. 15ml (1/2oz) of clean engine oil into the cylinder.
- 2. Install spark plug and pull starter handle slowly to distribute oil. **DO NOT** start engine at this time.
- 3. Ensure ignition switch is OFF, then slowly pull the recoil starter 2-3 times to distribute and coat the cylinder bore with oil.

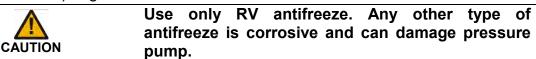
Unintentional sparking can cause fire or electrical shock. Failure to observe this warning can cause severe property damage, severe burns and even death.
 Disconnect spark plug wire from spark plug and cover tip of spark plug wire with insulating tape and place wire where it cannot come in contact with spark plug or pressure cleaner frame.

STORAGE OF PRESSURE CLEANER

- 1. Drain all water from high pressure line, coil it and store it in cradle of pressure cleaner handle.
- 2. Drain all water from spray gun and spray wand by holding spray gun in vertical position with nozzle pointed downward. Squeeze trigger to remove fluids from spray gun and spray wand. Store in spray gun holder.
- 3. Store high pressure hose and spray wand so they are protected from damage.

It is **RECOMMENDED** that you follow these steps to protect the internal seals of pressure cleaner when storing unit for more than 30 days and/or when freezing temperatures are expected.

1. Obtain a funnel, 170g (6oz) of RV antifreeze and approximately 0.9m (36inches) of garden hose with a male hose connector on one end.



- 2. Disconnect spark plug wire. Ensure it cannot touch any metal on pressure cleaner.
- 3. Connect the 0.9m of garden hose to water inlet of pressure pump.
- 4. Add RV antifreeze.
- 5. Pull engine starter rope slowly several times until antifreeze comes out of pressure hose connection of pressure pump.
- 6. Remove hose from water inlet of pressure pump.
- 7. Reconnect spark plug wire.

OTHER STORAGE TIPS

- 1. **DO NOT** store gasoline from one season to another unless it's been treated with fuel stabiliser.
- 2. Replace fuel container, if metal, and if it begins to rust. Rust and dirt and debris can contaminate fuel supply and components resulting in poor performance and/or internal damage to engine. Fuel should be stored in newer approved plastic storage container.
- 3. Cover pressure cleaner with a suitable cover that does not retain moisture such as a plastic- or plastic-coated tarp.
- 4. Store pressure cleaner in a clean and dry area.



Certain storage covers can be flammable or can melt in high temperatures. **DO NOT** place storage cover over pressure cleaner unit until it has completely cooled.

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
		Restore the tightness of the
	Pump sucking air	intake line
		Increase the size of the intake
		pipelines
Dumme de comot		Remove and kinks from the pipes
Pump does not reach the	Intake flow rate insufficient	Increase the filter capacity or
specified		clean the filter cartridge
pressures		Increase the RPM to the rated
• • • • • • • •		speed
	Worn intake and delivery valves	Replace the valves (1)
	By-pass valve seat worn	Replace the valve
	Worn gaskets	Replace the gaskets (1)
	Unsuitable, worn nozzle	Replace nozzle
	Faulty Gauge	Check and Replace
	Worn intake and delivery valves	Replace the valves (1)
Irregular	Valves blocked by dirt	Clean the valves (1)
variations in pressure	Air being sucked into system	Restore the tightness of the intake pipeline connections
pressure	Worn gaskets	Replace the gaskets (1)
	Voln gastets	
		Check and replace
Fluctuating	Valves blocked	Check and replace
pressure	Pump sucking air	Check water supply and air ingress at joints in suction line
	Worn piston packing	Check and replace
	Nozzle worn	Replace Nozzle
	Worn intake and delivery valves	Replace the valves (1)
Pressure drop	View induce and derivery valves	Clean the valves (1)
	By-pass valve seat worn	Replace the valve
	Worn gaskets	Replace the gaskets (1)
		Restore the tightness of the
	Air being sucked into system	intake pipeline connections
	intake and/or delivery valve	
Pump noisy	springs broken or collapsed	Replace the valves (1)
· ·····	Valves blocked by dirt	Clean the valves (1)
	Worn bearings	Replace the bearings (1)
	Intake liquid temperature too high	Reduce liquid temperature
		Reduce the pressure to the rated
	High pump operating pressure	values
Pump overheating	Not enough water flowing through	Check water inflow through pump
		DO NOT LEAVE PUMP ON IDLE
	Pump left on idle for too long	FOR >2min VOIDS WARRANTY
Maria	Guide piston gasket worn	Replace the gaskets (1)
Water in oil	High humidity percentage in air	Change the oil twice as often

	Worn gaskets	Replace the gaskets (1)
	Worn gaskets	Replace the gaskets (1)
Oil leak from pump	Worn pistons	Replace the pistons (1)
	Loose drain plug	Tighten drain plug
	pump overfilled	Check for correct amount
	incorrect oil use	Drain and refill with correct type and amount of oil
	Oil seals worn	Replace seals (1)
	loose connections	Tighten connections
Motor looking of	Piston packings worn	Check and replace (1)
Water leaking at	Worn or broken O-rings	replace O-rings
pump	Pump head or tubes damaged from freezing	Check and replace (1)
Engine shuts down when	Out of fuel	Fill fuel tank
running	Low engine oil	Add oil
	Out of fuel	Fill fuel tank
	Low engine oil	Add oil
	wrong fuel	Drain and refill recommended fuel
	Rocker switch set to off	Set to on
	Fuel valve is in off position	Set to on
Engine will not	Spark plug wire not connected to spark plug	Check and make sure its wired
start	Faulty spark plug	Check and replace
Start	Water in fuel	Drain tank and carburettor and refill
	Flooded	Wait 5 minutes and re-crank engine
	Engine too hot	Allow engine to cool
	Choke in wrong position	Change choke position
	Too much pressure builds up	Release pressure
(1) operat	ions which must be carried out at an	authorised service centre

LIMITED WARRANTY

To take advantage of the MAKINEX limited warranty, you must have maintenance performed according to the maintenance schedule (contained in relevant owner's manual supplied with this product), by an authorised MAKINEX dealer or MAKINEX service technician. You are free to have your MAKINEX product serviced by any suitably qualified mechanic or electrician (depending on the mechanical or electrical requirement) and this will not affect your statutory warranties, however, failure by the owner to have the recommended servicing carried out by an authorised MAKINEX dealer/service technician means that you cannot take advantage of the MAKINEX limited warranty.

In order to ensure your safety, we strongly recommend that you only use an authorised MAKINEX dealer for servicing. Only authorised MAKINEX dealers have access to all the special tools, technical information, parts and training required to maintain your MAKINEX product in peak operating condition.

MAKINEX warrants each new Dual Pressure Cleaner to be free from defects in material and workmanship under normal domestic and industrial use and service for the period specified below, conditional to the limitations and exclusions printed on this page. This warranty applies only to new MAKINEX pressure cleaners distributed by us and by our authorised MAKINEX dealers.

AUSTRALIA: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

WARRANTY: (Ex-factory/ Reseller premise)

MAKINEX warrants to the original purchaser:

- Frame and Engine will be free of defects in material and workmanship for a period of one (1) year from the original date of purchase.
- Briggs and Stratton Engine is subject to (2) years warranty. Please see <u>www.briggsandstratton.com</u> for details.
- 12 months warranty on pressure pump (Note: Maintenance is not warranty. Excludes service and consumables required at scheduled maintenance intervals)

WARRANTY EXCLUSIONS

This warranty does not cover the following repairs and equipment:

NORMAL WEAR

Pressure cleaners need periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment.

INSTALLATION, USE, AND MAINTENANCE

This warranty will not apply to parts and/or labour if this pressure cleaner is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the pressure cleaner's limits, modified, installed improperly or connected incorrectly to any water supply. Normal maintenance such as spark plugs, air filters, adjustments, fuel system cleaning and obstruction due to build-up is not covered by this warranty.

OTHER EXCLUSIONS

This warranty excludes:

- Cosmetic defects such as paint, decals, etc.
- •Wear items such as filter elements, Pistons, O-rings, etc.
- Accessory parts such as starting batteries, and storage covers.
- Failures due to acts of God and other force majeure events beyond the manufacturer's control.
- Problems cause by parts that are not original MAKINEX parts.
- Maintenance service cost
- Expeditated freight costs

OWNER'S RESPONSIBILITY UNDER LIMITED WARRANTY:

Only clean, potable water should be used through our pressure cleaners with a flow rate at least 15% more than the pump requirements (e.g. a 15LPM pump requires a water supply of 18LPM minimum to prevent pump cavitation).

Strict adherence to the maintenance checks and with **proof of scheduled maintenance history** is required by an authorised agent or qualified mechanic. It is the consumer's responsibility to deliver the machine in question to our service premises or to the premises of our appointed agent at the consumer's expense for replacement or repair as applicable. Maintenance services are not covered under warranty.

Claim Procedure:

- Contact MAKINEX by phone or email informing us of your machines problem or defect.
- Once the extent of the claim has been assessed, we retain the right to compensate the consumer for such defect, or repair (pars & labour), or replace the machine under warranty.
- All warranties will be carried out by MAKINEX authorised staff or appointed agents at a premise to be determined by the Manufacturer.
- Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.
- It is the responsibility (and cost) of MAKINEX or our appointed agent to return the machine to be repaired or replaced under warranty to the consumer- this is valid for domestic territories only (e.g. Australian units will be delivered within Australian territory, USA units will be delivered within USA territory and European units will be delivered within its designated country's territories).
- Where the specific warranty component (e.g. Engine) is under a Manufacturer's warranty other than MAKINEX (e.g. Briggs and Stratton), the consumer can either contact MAKINEX or the applicable Manufacturer for repairs where such warranty was registered with that manufacturer at purchase.
- Warranty calls will only be carried out by our representatives and not via client's choice of repairer. We will not accept back charges for any work not carried out by our representatives or accept any charges due to equipment being un-operational for any reason even during its warranty period.

CONTACT INFORMATION

For sales, service, warranty and parts for all MAKINEX products; please refer below.

	SALES, SERVICE, SPARE PARTS & WARRANTY
	SALES
	TEL 1300 795 953 or
	+61 2 9460 8071
AUSTRALIA	WEB www.makinex.com.au
	SERVICE, SPARE PARTS & WARRANTY
	EMAIL service@makinex.com.au
	SALES
	TEL +1 855-625-4639
USA	WEB www.makinex.com
	SERVICE, SPARE PARTS & WARRANTY
	EMAIL service@makinex.com
UK	
	WEB <u>www.makinex.co.uk</u>
	TEL +31 (0)6 24881203 or
EUROPE	+31 (0)6 50841849
	EMAIL info@mtools.eu
CHINA	TEL +86 18951118278
	EMAIL sales@makinex.com.cn

Or your nearest MAKINEX distributor

We have very knowledgeable, experienced staff to assist you with help and advice.



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APPENDIX A- RISK ASSESSMENT

DPC-2200 USER MANUAL

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