

ENGLISH
ESPAÑOL

TRUPER®

expert

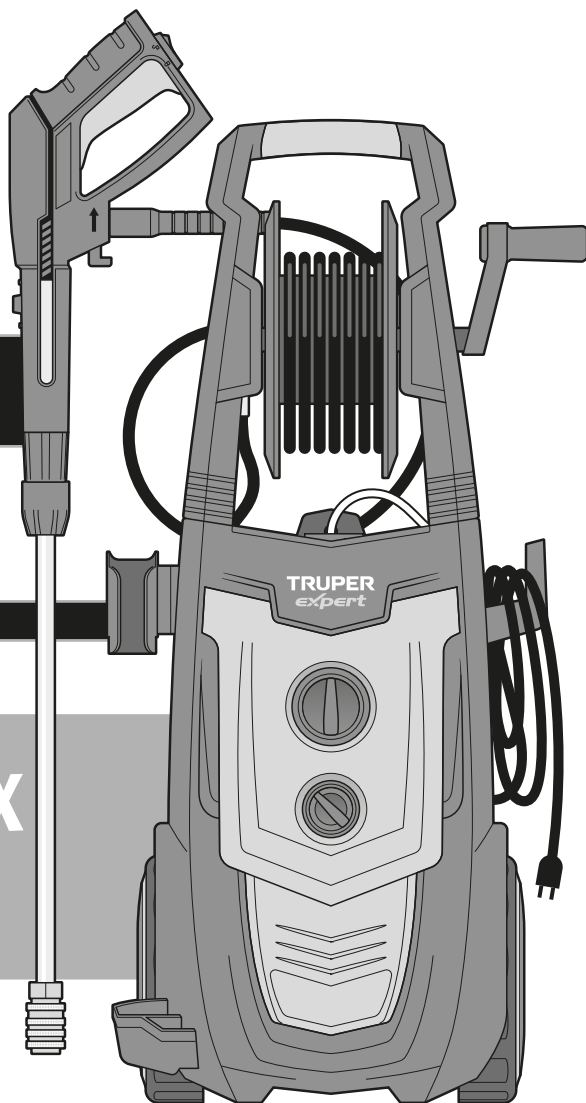
Manual Electric Pressure Washer

2 000 PSI

Applies for:

Code	Model
102111	HILA-2000X

HILA-2000X



CAUTION



Read this manual thoroughly
before using the tool.



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CAUTION

To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.

Use and care recommendations



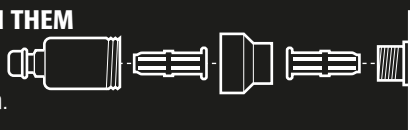
THIS MACHINE DOES NOT SUCK WATER FROM PONDS OR TANKS.

It must be connected to a supply outlet or an elevated tank.



ALWAYS USE THE FILTERS AND CLEAN THEM AFTER EACH USE.

Replace the filter when it is cracked or worn.



FULFILL THE WORKING CYCLES.

50 min of work and 20 min of rest. Daily maximum 6 hours.



Perform periodic **MAINTENANCE** to your machine (page 10).

Technical data



HILA-2000X

Code •	102111
Description •	Electric pressure washer
Maximum pressure •	2 000 PSI
Maximum inlet pressure •	50 PSI
Minimum inlet pressure •	43.5 PSI
Maximum inlet temperature •	122 °F
Maximum water flow •	1.5 gpm
Input flow •	3.3 gpm
Voltage • 127 V~	Frequency • 60 Hz
Current •	16 A
Power •	2 100 W
Power supply cable •	16.5 ft
High-pressure hose •	26.2 ft
Duty cycle •	50 min work per 20 min rest. Maximum 6 hours daily
Conductors •	14 AWG x 3C with 221 °F insulation temperature
Insulation •	Class I

Power cord grips: Type "Y".
Washer Build Quality: Basic
Thermal insulation on motor winding: Class F

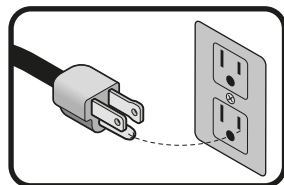
⚠ WARNING Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a **TRUPER** Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not expose to rain, liquids and/or dampness.

⚠ WARNING Before gaining access to the terminals all power sources should be disconnected.



Power requirements

⚠ WARNING In the event of faults or severe malfunction, the ground connection delivers a trajectory with minimum resistance for power supply reducing the risk of electric shock. This tool is built with a power cord with a connector and plug connected to ground. The plug shall be connected into a power source installed and grounded according to all the local codes.



⚠ WARNING When using an extension cord, verify the gauge is enough for the power that your product needs. A lower gauge cord will cause voltage drop in the line, resulting in power loss and overheating. The following table shows the right size to use depending on cord's length and the ampere capability shown in the tool's nameplate. When in doubt use the next higher gauge.

Ampere Capacity	Number of Conductors	Extension Gauge	
		From 6 ft to 49 ft	Higher than 49 ft
From 0 and up to 10 A	3 (one grounded)	18 AWG	16 AWG
From 10 and up to 13 A		16 AWG	14 AWG
From 13 and up to 15 A		14 AWG	12 AWG
From 15 and up to 20 A		8 AWG	6 AWG

* It is safe to use only if the extensions have a built-in artifact for over current protection.

AWG = American Wire Gauge. Reference: NMX-J-195-ANCE

⚠ WARNING When operating power tools outdoors, use a **volteck** grounded extension cable labeled "For Outdoors Use". These extensions are specially designed for operating outdoors and reduce the risk of electric shock.



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General power tools safety warnings



! WARNING! Read carefully all safety warnings and instructions listed below. Failure to comply with any of these warnings may result in electric shock, fire and / or severe damage. **Save all warnings and instructions for future references.**

Work area

Keep your work area clean, and well lit.

Cluttered and dark areas may cause accidents.



Never use the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

Sparks generated by power tools may ignite the flammable material.



Keep children and bystanders at a safe distance while operating the tool.

Distractions may cause losing control.



Electrical Safety

The tool plug must match the power outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.

Modified plugs and different power outlets increase the risk of electric shock.



Avoid body contact with grounded surfaces, such as pipes, radiators, electric ranges and refrigerators.

The risk of electric shock increases if your body is grounded.

Do not expose the tool to rain or wet conditions.

Water entering into the tool increases the risk of electric shock.

Do not force the cord. Never use the cord to carry, lift or unplug the tool. Keep the cord away from heat, oil, sharp edges or moving parts.

Damaged or entangled cords increase the risk of electric shock.

When operating a tool outdoors, use an extension cord suitable for outdoor use.

Using an adequate outdoor extension cord reduces the risk of electric shock.

If operating the tool in a damp location cannot be avoided, use a ground fault circuit interrupter (GFCI) protected supply.

Using a GFCI reduces the risk of electric shock.

Personal safety

Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

A moment of distraction while operating the tool may result in personal injury.

Use personal protective equipment. Always wear eye protection.

Protective equipment such as safety glasses, anti-dust mask, non-skid shoes, hard hats and hearing protection used in the right conditions significantly reduce personal injury.



Prevent unintentional starting up. Ensure the switch is in the "OFF" position before connecting into the power source and / or battery as well as when carrying the tool.

Transporting power tools with the finger on the switch or connecting power tools with the switch in the "ON" position may cause accidents.

Remove any wrench or vice before turning the power tool on.

Wrenches or vices left attached to rotating parts of the tool may result in personal injury.

Do not overreach. Keep proper footing and balance at all times.

This enables a better control on the tool during unexpected situations.

Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothes and gloves away from the moving parts.

Loose clothes or long hair may get caught in moving parts.



If you have dust extraction and recollection devices connected onto the tool, inspect their connections and use them correctly.

Using these devices reduce dust-related risks.

Power Tools Use and Care

Do not force the tool. Use the adequate tool for your application.

The correct tool delivers a better and safer job at the rate for which it was designed.



Do not use the tool if the switch is not working properly.

Any power tool that cannot be turned ON or OFF is dangerous and should be repaired before operating.

Disconnect the tool from the power source and / or battery before making any adjustments, changing accessories or storing.

These measures reduce the risk of accidentally starting the tool.

Store tools out of the reach of children. Do not allow persons that are not familiar with the tool or its instructions to operate the tool.

Power tools are dangerous in the hands of untrained users.



Service the tool. Check the mobile parts are not misaligned or stuck. There should not be broken parts or other conditions that may affect its operation. Repair any damage before using the tool.

Most accidents are caused due to poor maintenance to the tools.



Use the tool, components and accessories in accordance with these instructions and the projected way to use it for the type of tool when in adequate working conditions.

Using the tool for applications different from those it was designed for, could result in a hazardous situation.

Service

Repair the tool in a TRUPER Authorized Service Center using only identical spare parts.

This will ensure that the safety of the power tool is maintained.

Children or people with reduced physical, sensory or mental capabilities shall not operate the tool, neither inexperienced people or without knowledge in the use of the tool, unless supervised by a person responsible of their safety or if receiving previous instructions about the tool operation.

Children shall be kept under supervision to double-check they will not play with the tool. Tight supervision shall be used with children or disabled persons to prevent from using or being close to any household tool.



This tool is in compliance with the Official Mexican Standard (NOM - Norma Oficial Mexicana).

Safety warnings for power washers

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Before operating the washer

⚠ CAUTION • Bear in mind that pressure spraying is very powerful and can be very dangerous if misused. It is not recommended to use on painted surfaces, wood surfaces or adhesive-pasted articles.

⚠ WARNING • This tool is built to use cleaning agents exclusively designed for washers. Using other cleaning agents or chemical products may seriously affect the device safety.

- Do not use bleach, chlorine, chemical products or any other cleaning agent containing acid or that are not specific for washers. Otherwise the machine could get seriously damaged.

- The washer is not water proof. Set it as far away as possible from the place to be washed.

- Have a qualified electrician to double check if the power source where the washer is to be connected is the right one. To prevent electric shocks, install a device to disconnect the power supply or one that is grounded.



No more at 30 mA

⚠ WARNING • To guarantee the tool safety use only original **TRUPER** brand spare parts, (nozzles, lance, gun & hose).

- Check that all the parts, components and accessories in the washer are not damaged. When finding any type of malfunction, replace the part before using the washer.

⚠ WARNING • Do not use the device in the presence of people unless they wear protective clothing.

- The jet shall not be aimed directly towards any living being, active power equipment or the device.

- Do not allow children or unexperienced people to use the washer.

⚠ WARNING • Using a wrong extension cord can be dangerous. If using an extension cord, the plug and power inlet shall have the same construction against water entry.

- Do not use the machine if the power cord or important parts show any damage for example, safety devices, high-pressure nozzles, trigger, etc.

⚠ CAUTION • The water passing through the system is not suitable to drink.

When operating the washer

⚠ CAUTION • Unroll the pressure hose all the way to prevent overheating.

⚠ WARNING • Wear eye protection and waterproof clothing.

- Use both hands when spraying to gain total control with the high-pressure gun.

⚠ WARNING • Never touch the nozzle or the water spray while the washer is being operated.

- Do not cover the washer when being used to allow free air circulation.

⚠ WARNING • Never aim the water spray towards the power cord or the washer. It may cause a fatal electric shock.

⚠ WARNING • Never discharge spray directly to people or animals. Only people wearing the protection gear may be close to the washer when being used. Do not aim the water jet towards yourself or other people to clean clothes or shoes.

⚠ WARNING • Keep all power connections dry and above the ground.

⚠ DANGER • Do not touch the power plug with wet hands.

After operating the washer

⚠ CAUTION • Do not store equipment with pressure in the system. Remove the water supply and hold the trigger for a few seconds to release any residual pressure in the system when finished using it.

- Disconnect the power cable when the washer is not being used and before removing the high-pressure hose.

⚠ CAUTION • To prevent an accidental discharge, set the trigger lock in the high-pressure gun when the washer is not being used.

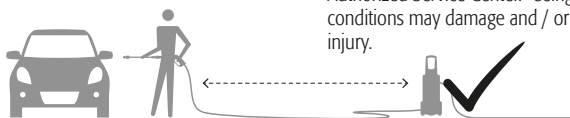
- Never make knots or fold the high-pressure hose. It can get damaged.

⚠ CAUTION • Do not use or store this product in temperatures below 40 °F. The warranty does not cover damage caused by frost.

Automatic shutdown

- The washer is built with a shutdown device that detects when the high-pressure gun trigger is released. It opens a power circuit in the motor to stop the washer.

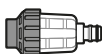
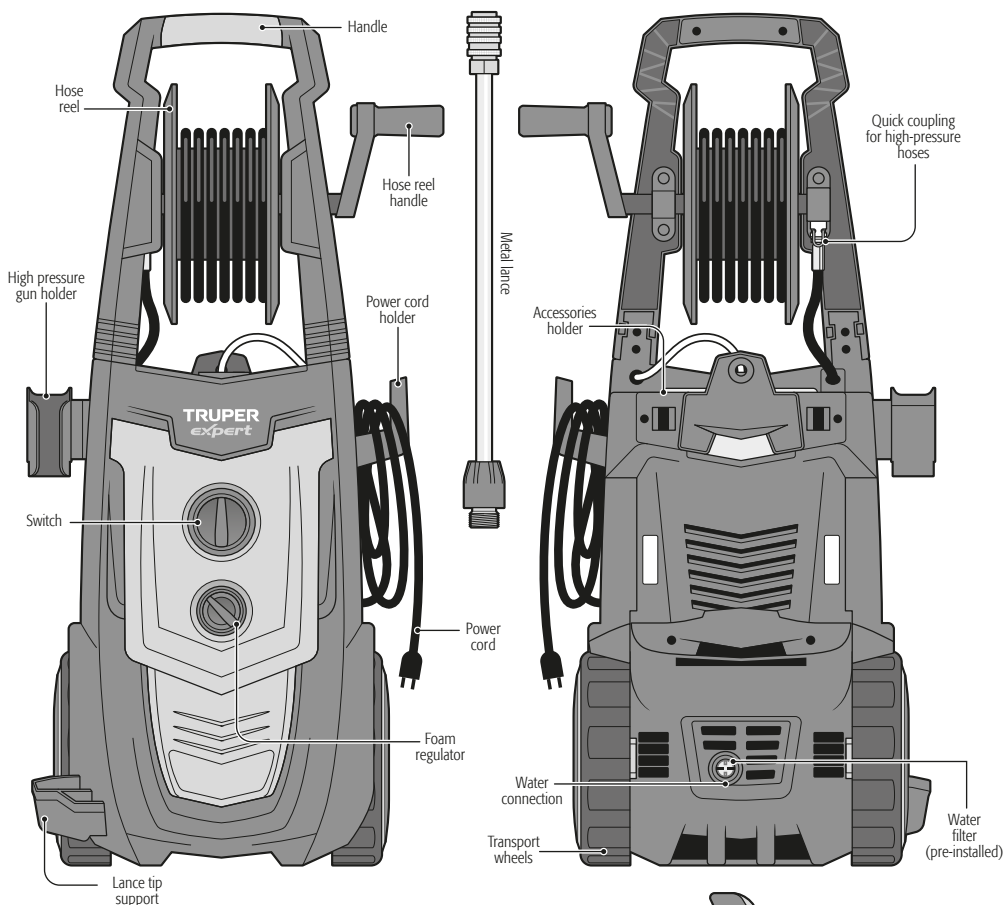
⚠ WARNING • If the Automatic Shutdown fails, DO NOT USE the washer. Contact a **TRUPER** Authorized Service Center. Using the washer in these conditions may damage and / or cause severe personal injury.



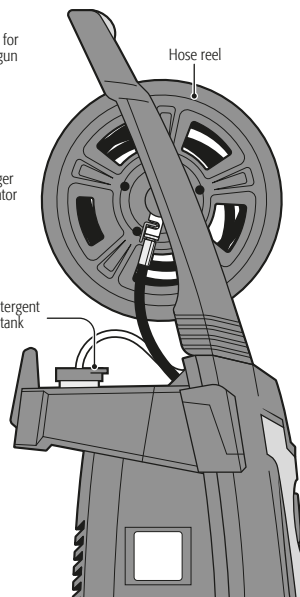
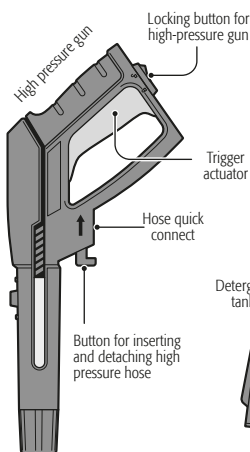
Right Way to Operate the Washer



Wrong Ways to Operate the Washer



NOTE: Hose comes assembled.



• Some parts of your pressure washer are not assembled. Follow these steps to install them:

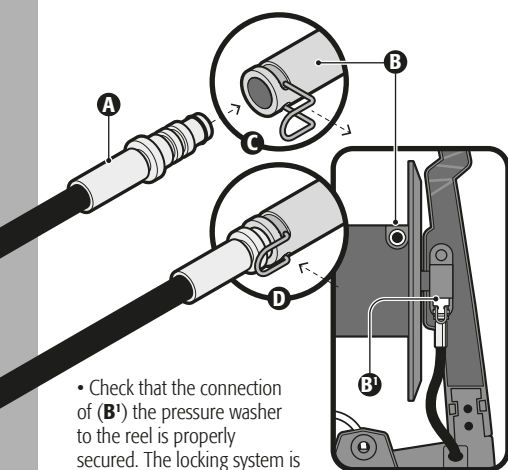
1. Place the high-pressure gun holder in the designated location according to the parts diagram, and similarly, place the base for the lance tip in the area next to the left wheel and secure it with the included screw.

2. Place the electric cable holder in the designated location according to the parts diagram.

High pressure hose

• The high-pressure hose is already assembled to the reel at the factory, the following instructions are for replacement in case of damage:

• Connect the high-pressure hose (A) to the high-pressure outlet (B) located on the inside of the reel. To connect, pull the latch to release the padlock (C), insert the hose connection into the outlet port as far as it will go and push the latch to close the padlock securing the connection (D).

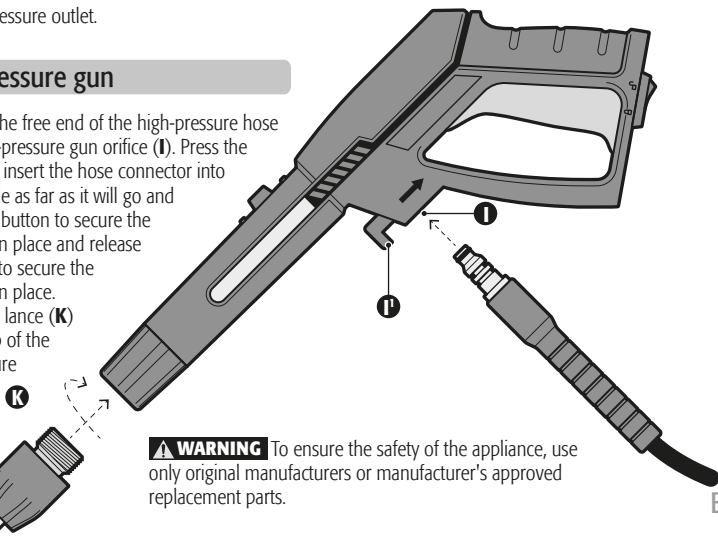


• Check that the connection of (B') the pressure washer to the reel is properly secured. The locking system is the same as the connection of the high-pressure outlet.

High-pressure gun

• Connect the free end of the high-pressure hose to the high-pressure gun orifice (I). Press the button (I'), insert the hose connector into the gun hole as far as it will go and release the button to secure the connector in place and release the button to secure the connector in place.

• Screw the lance (K) onto the tip of the high-pressure gun.



⚠ WARNING To ensure the safety of the appliance, use only original manufacturers or manufacturer's approved replacement parts.

Water supply hose

⚠ CAUTION • Before connecting the garden hose (E) to the equipment, let the water run through it to expel any objects inside. If the water supply is a well, the length of the hose should be a maximum of 29.5 ft and an additional filter should be used to prevent sand from entering the system.

• It is recommended to use a reinforced hose (not included) with standard connection with outside diameter of 5/8", inside diameter of 15/32" and maximum 33 ft length.

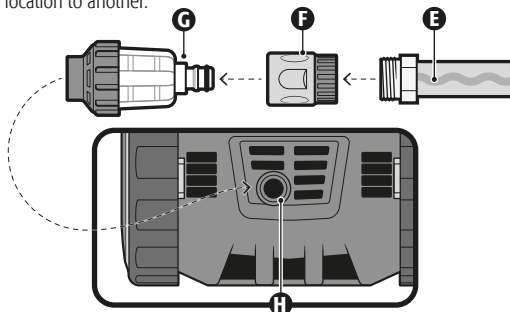
• Always completely untangle the garden hose and high-pressure hose to avoid pressure fluctuations.

• Connect the garden hose (E, not included) to the quick connector (F) and the filter (G) to the water inlet (H).

• The quick connector (F) is useful to easily connect and disconnect the hose to the filter (G).

⚠ WARNING It is important that the connector has the filter (G) to prevent sand, silt, stones or any impurities from damaging the pressure washer. Using the connector without the filter will void the warranty.

⚠ WARNING Disconnect the garden hose to prevent damage to the filter when moving the machine from one location to another.

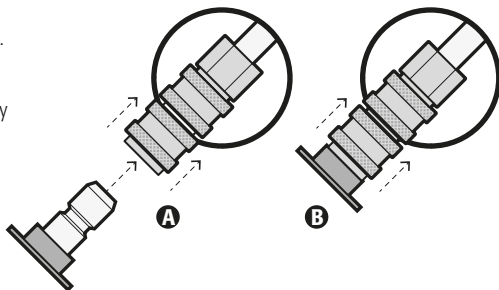


⚠ WARNING • Before mounting or removing a nozzle on the metal lance, turn off the pressure washer, shut off the water supply, depress the trigger to release pressure, and engage the safety latch to lock the trigger. Failure to comply with any of these points could result in serious injury.

⚠ WARNING • Do not allow the metal lance to be pointed at your face when assembling or disassembling the nozzles, the quick connect system of the nozzles could accidentally launch the nozzle and cause injury.

- Insert the nozzle into the quick connector of the lance.
- Push the nozzle until the collar of the quick connector collar rises.
- Pull the nozzle to make sure that the nozzle is properly secured.
- To remove the nozzle, hold the nozzle by hand and pull the quick connect collar.

⚠ WARNING The quick connector has a spring-loaded spring if you do not hold the nozzle before pulling the collar, the nozzle will be ejected.



Nozzle selection

- The pressure washer has different nozzles for different flow openings depending on the job to be done:

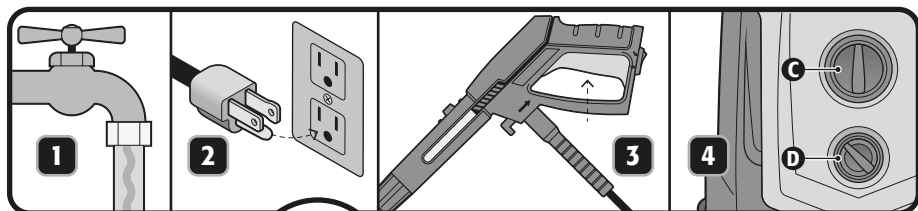
Nozzle	Flow	Abrasion	Cement, brick, masonry	Exteriors, hedges, courtyard, terraces	Boats, RV's, gardening gear
Red	0°		✓		
Yellow	15°		✓	✓	✓
Green	25°		✓	✓	✓
Turbo			✓	✓	✓
White	40°		✓	✓	✓
Black	soap		✓	✓	✓

✓ Recommended Nozzle

✓ Use with Caution

Turning on

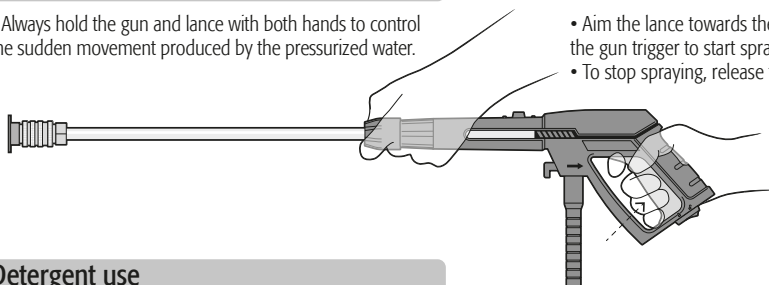
1. Open the water faucet and keep it open all the time you are using the washer. Maximum inlet pressure: 174 PSI
2. Connect the plug into the power supply.
3. Tighten and hold the high-pressure gun trigger to release the air caught inside the washer. Release the trigger when the water flow is constant.
4. Turn the switch (C) into the ON position. The motor will start momentarily and then it will stop.



Spraying

- Always hold the gun and lance with both hands to control the sudden movement produced by the pressurized water.

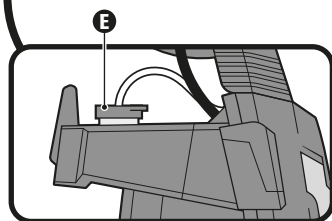
- Aim the lance towards the floor and press the gun trigger to start spraying.
- To stop spraying, release the trigger.



Detergent use

- ⚠ WARNING** • Use only detergents designed for pressure washers. Never use products with bleach, chlorine or other corrosive agents such as solvents, trisodium phosphate products, ammonia or acid-based cleaners. These products cause damage to the machine components.
- Remove the cap of the detergent tank (E) and add the appropriate detergent. Do not add water to the detergent tank, the machine will automatically mix the detergent with the water.

- ⚠ WARNING** • The machine will only suction detergent when operating at low pressure. Mount the soap nozzle (black color) on the lance.
- Squeeze the trigger, the detergent will come out mixed with the water. If you need to adjust the detergent flow, turn the detergent switch (D), to the left to decrease and to the right to increase, depending on the job to be done.
 - Apply detergent to completely cover the cleaning surface.
 - Turn off the spray gun and allow the detergent to remain on the surface to be cleaned for a couple of minutes.
 - Switch to other nozzles to enter high pressure cleaning mode to rinse and remove detergent from the surface.



⚠ WARNING • Disconnect the power cord from the power supply before carrying out any type of adjustment, service or maintenance on the washer.

Cleaning and care

- Keep the washer free of dust. Never use water or chemical liquids to clean the washer. Clean only using a dry and clean cloth.
- Always keep the ventilation slots clean and free of obstructions to guarantee the proper cooling of the motor.
- Regularly inspect all the mounting screws and double check tightness. If any of these screws is loose, tighten immediately.
- The motor is the washer heart. Use care so that it will not be affected by oil or water.
- Check the power cable often to detect any kind of damage. In the event there is some damage go to a **TRUPER** Authorized Service Center to have it replaced.

Connections lubrication

- The connections in the washer hoses, the high-pressure gun and the lance shall be cleaned regularly. To prevent leaks and damage to the seals in each connection, lubricate using non-water soluble grease.

Nozzle lubrication

- The nozzles shall be regularly lubricated with non-water soluble grease or light oil.
- A blocked nozzle increases importantly the pressure in the pump. Clean immediately:
 - 1) Remove the blockage in the nozzle inserting the nozzle cleaner through the center orifice.
 - 2) Purge the nozzle with water. Start the washer and press the washer high-pressure gun. If the pressure is still too high repeat steps 1 and 2.

Washer lubrication

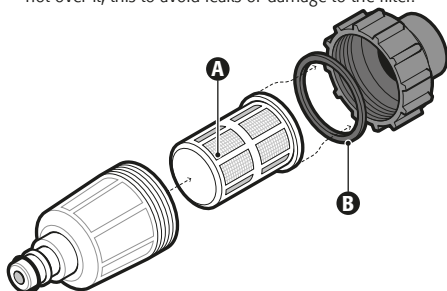
- Every six months, take the machine to a **TRUPER** Authorized Service Center to carry out maintenance (lubricate valves and oil change).

⚠ CAUTION • In case there is an oil leak go to a **TRUPER** Authorized Service Center.

Water filter

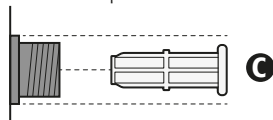
- Any foreign matter entering the washer pump may cause damage. The washer is built with a water filter to prevent this possibility.
- The inner screen in the washer filter shall always be kept clean to keep a continuous flow of water into the washer and prevent damaging the pump.
- To clean the screen, remove the filter from the garden hose connector and unscrew to remove the screen. Handle with care to prevent damaging the screen.
- Set back immediately both screen and connector to prevent foreign particles entering into the pump.

⚠ CAUTION Before closing the filter, make sure that the screen **(A)** is assembled in the center of the seal **(B)** and not over it, this to avoid leaks or damage to the filter.



Cleaning the internal filter **(C)**:




- Remove the filter carefully.
- Rinse it and place it inside the machine.



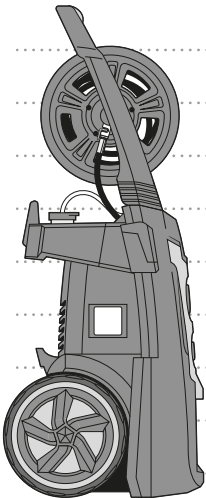
Storing in winter time

- Turn the washer OFF and press the trigger to release the pressure trapped inside the unit.
- Remove both the garden hose and the pressure hose.
- Turn ON the washer and leave it running 5 seconds to eliminate any water trapped inside the pump.
- Disconnect the washer and store the power cord.
- Store the washer and accessories in a dry environment and with controlled temperature. Do not store the washer and accessories where temperature may drop to 40 °F.

⚠ CAUTION DAMAGES DUE TO FREEZING ARE NOT COVERED IN THE WARRANTY.

Problem	Possible cause	Solution
The washer does not start.	<ul style="list-style-type: none"> • The washer is not connected. • Faulty power outlet. • Blown fuse. • Faulty extension cord. • The thermal protector of the motor is activated. 	<ul style="list-style-type: none"> • Connect the washer. • Use a different power outlet. • Replace fuse. Shut off other machines. • Replace the extension cord. • Unplug the machine from the outlet for 30 seconds and reconnect.
Pressure is not constant.	<ul style="list-style-type: none"> • The pump is drawing air. • Valves are dirty, worn or stuck. • Worn pump seals. • Insufficient water supply. 	<ul style="list-style-type: none"> • Check for leaks in the hose and connections. • Go to a  TRUPER Authorized Service Center. • Go to a  TRUPER Authorized Service Center. • Increase water pressure, double check there are no blockages, unroll hoses completely.
The washer stops while working.	<ul style="list-style-type: none"> • Blown fuse. • Wrong voltage supply. • Thermal sensor is activated. • The nozzle is partially blocked. 	<ul style="list-style-type: none"> • Replace fuse. • Shut off other machines. Double check voltage supply corresponds to the specifications in this manual. • Allow the washer to cool down. • Clean the nozzle.
The fuse blows off.	<ul style="list-style-type: none"> • The fuse ampere capacity is low. 	<ul style="list-style-type: none"> • Change to an installation with capacity higher than the washer's ampere consumption. • Try using with no extension cord.
The washer is pulsating.	<ul style="list-style-type: none"> • There is air inside the hose. • Wrong supply of the water supply. • Nozzle is partially blocked. • Water filter is blocked. • Tangled hose. 	<ul style="list-style-type: none"> • Turn off the equipment and press the trigger of the high-pressure gun until the water pressure is constant. • Check the water supply matches the required specifications. Avoid using long and thin hoses (minimum 1/2"). • Clean the nozzle. • Clean the filter. • Straighten the hose.
The washer stops and starts by itself.	<ul style="list-style-type: none"> • The pump or the high pressure gun is damaged. • There is no water inlet. 	<ul style="list-style-type: none"> • Go to a  TRUPER Authorized Service Center. • Open the water inlet.
The washer starts but there is no water flowing out.	<ul style="list-style-type: none"> • The pump, hoses or accessories are frozen. • There is no water supply. • The water filter is blocked. • The nozzle is blocked. 	<ul style="list-style-type: none"> • Wait for the pump, hoses or accessories to thaw. • Connect the water inlet. • Clean the filter. • Clean the nozzle.

If despite carrying out the recommended actions the problems persist, contact a  **TRUPER** Authorized Service Center.



In the event of any problem contacting a Truper Authorized Service Center, please see our webpage www.truper.com to get an updated list, or call our toll-free numbers **800 690-6990** or **800-018-7873** to get information about the nearest Service Center.

AGUASCALIENTES **DE TODO PARA LA CONSTRUCCIÓN**
GRAL. BARRAGÁN #1201, COL. GREMIAL, C.P. 20030,
AGUASCALIENTES, AGS. TEL: 449 994 0537

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AV. LA ENCANTADA, LOTE #5, PARQUE INDUSTRIAL EL
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BAJA CALIFORNIA SUR **FIX FERRETERÍAS**
FELIPE ANGELES ESQ. RUIZ CORTÍNEZ S/N, COL. PUEBLO
NUEVO, C.P. 23670, CD. CONSTITUCIÓN, B.C.S.
TEL: 613 132 1115

CAMPECHE **TORNILLERÍA Y FERRETERÍA AAA**
AV. ALVARO OBREGÓN #524, COL. ESPERANZA
C.P. 24080 CAMPECHE, CAMP. TEL: 981 815 2808

CHIAPAS **FIX FERRETERÍAS**
AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700,
TAPACHULA, CHIS. TEL: 962 118 4083

CHIHUAHUA **SUCURSAL CHIHUAHUA**
AV. SILVESTRE TERRAZAS #128-11, PARQUE INDUSTRIAL
BAFAR, CARRETERA MÉXICO CUAUHTÉMOC, C.P. 31415,
CHIHUAHUA, CHIH. TEL: 614 434 0052

CIUDAD DE MÉXICO **FIX FERRETERÍAS**
EL MONSTRUO DE CORREGIDORA, CORREGIDORA # 35,
COL. CENTRO, C.P. 06060, CUAUHTÉMOC, CDMX.
TEL: 55 5522 5031 / 5522 4861

COAHUILA **SUCURSAL TORREÓN**
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