

USER AND MAINTENANCE
MANUAL

ZONDA 2T MIST BLOWER



Wildfires | ZONDA 2T MIST BLOWER



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PRODUCT IDENTIFICATION

ZONDA 2T MIST BLOWER

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Código interno:

GENERAL PRODUCT DESCRIPTION:

Portable, backpack-style blower-sprayer with a single-cylinder 2-stroke engine, manually operated, designed for spraying and misting (mistblowing) of plant protection products in professional agricultural and forestry applications.

Uses:

- Dusting applications using a specialized mounting kit.
- Treatments in forested areas, orchards, and large green spaces.
- Professional jobs that require lightweight, fuel-efficient equipment with a two-stroke engine.

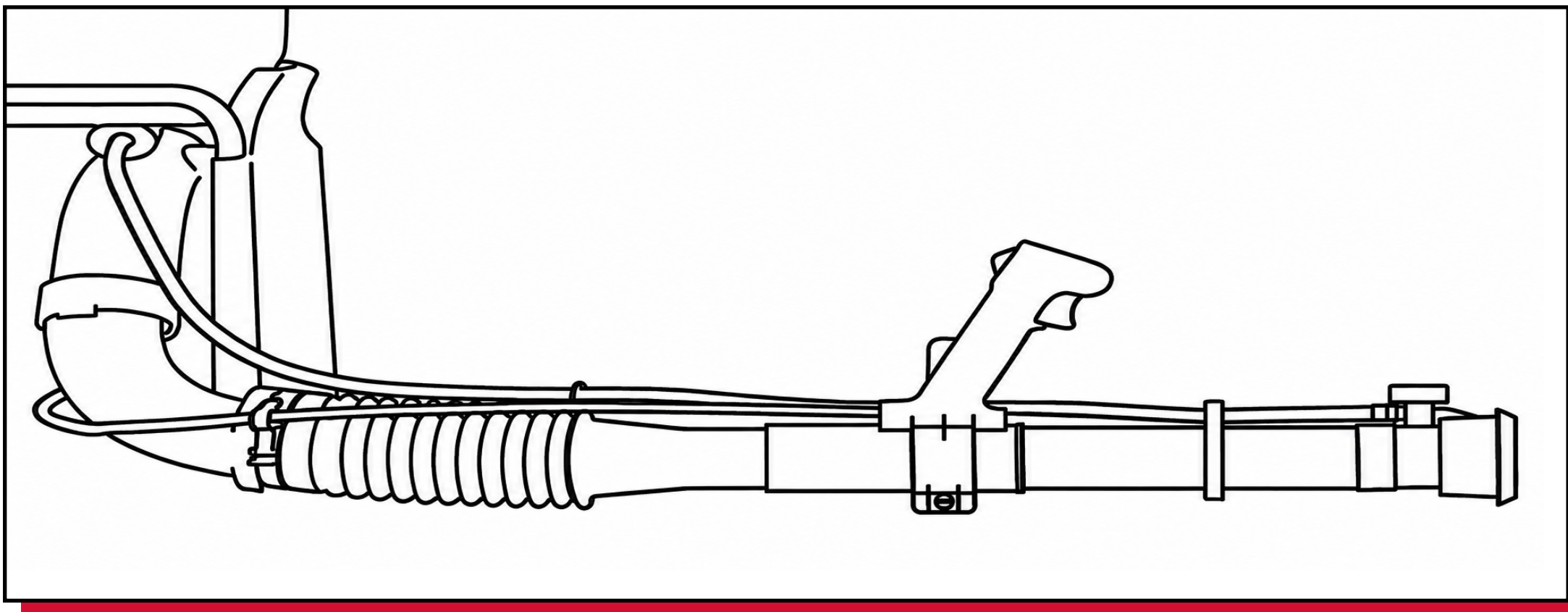
Technical Specifications:

Specification	Value
Engine type	2-stroke, single-cylinder
Displacement	56,5 cm³
Bore	46 mm
Stroke	34 mm
Engine power	2,5 kW
Idle speed	2.800 rpm
Weight	10,5 kg
Airflow	1060 m³/h
Spray tank capacity	14 L / 20 L
Filler strainer mesh size	1 mm
Discharge flow rate (metering)	0.14–3.03 L/min, continuously variable

Residual liquid in tank	Approx. 0.1 L, depending on design
Ignition system	Electronic magneto
Spark plug	L7T; resistor type: BPMR7A
Spark plug gap	0.6–0.7 mm
Spark plug thread	M14 × 1.25; 9.5 mm reach
Carburetor	All-position diaphragm carburetor with fuel pump
Air filter	Paper element
Fuel tank capacity	1,5 L
Fuel mixture	Gasoline and 2-stroke oil, TC classification; 25:1 ratio
Starter rope	3.5 mm diameter × 960 mm

Design and materials:

- Professional, manually operated portable equipment with a two-stroke engine, designed for spraying, misting, dusting, and spreading granules.
- Carried on the back using an adjustable harness that distributes the weight ergonomically; features quick-release buckles for emergency situations.
- Control handle that slides along the corrugated hose, adjustable with a locking screw to achieve the most comfortable position.
- Dosing unit with a shut-off valve and flow control knob (positions 1 through 4).
- Removable standard nozzle with interchangeable deflector screens (angular, conical, and double deflector) to adapt the spray pattern to each crop.
- 2-stroke engine with diaphragm carburetor; requires a fuel-oil mixture (does not have separate sump lubrication).



SAFETY AND WARNINGS

Personal protective equipment:

- Wear tight-fitting, durable clothing that allows for freedom of movement (safety coveralls are recommended); avoid loose clothing, scarves, ties, jewelry, flared pants, or loose hair that could get caught in the air intake.
- Wear sturdy, non-slip footwear, preferably with steel-toed caps.
- Wear approved safety glasses, goggles, or a face shield.
- Wear hearing protection (earplugs or earmuffs); frequent users should have their hearing checked periodically.
- Wear durable, non-slip gloves, preferably leather.
- In very dusty conditions or when applying powdered products, wear a mask with a face filter (respirator).

Before starting up:

- Read, understand, and follow this manual before using the equipment; misuse poses a risk to the user and third parties.
- Do not lend or rent the equipment without providing the user manual. Persons under 18 years of age must not operate it.
- Be well-rested and in good physical and mental condition; take breaks if you feel fatigued.
- Do not operate the equipment while under the influence of alcohol, drugs, or other substances that impair vision, dexterity, or judgment.
- Use only accessories expressly approved for this model; other accessories increase the risk of accidents and exclude INFOREST from liability.
- Before starting the engine, verify that: the throttle lever moves freely and returns to idle when released; the stop switch moves easily to the “OFF” position; and the spark plug cap is securely connected.
- Start the engine at least 3 meters away from the refueling point, always outdoors.
- Never start or operate the equipment in confined spaces: risk of carbon monoxide poisoning.
- Position the equipment on firm ground, maintain good balance, and ensure a secure footing. This is single-operator equipment: do not allow other people to approach while it is running, not even during startup.

Refueling:

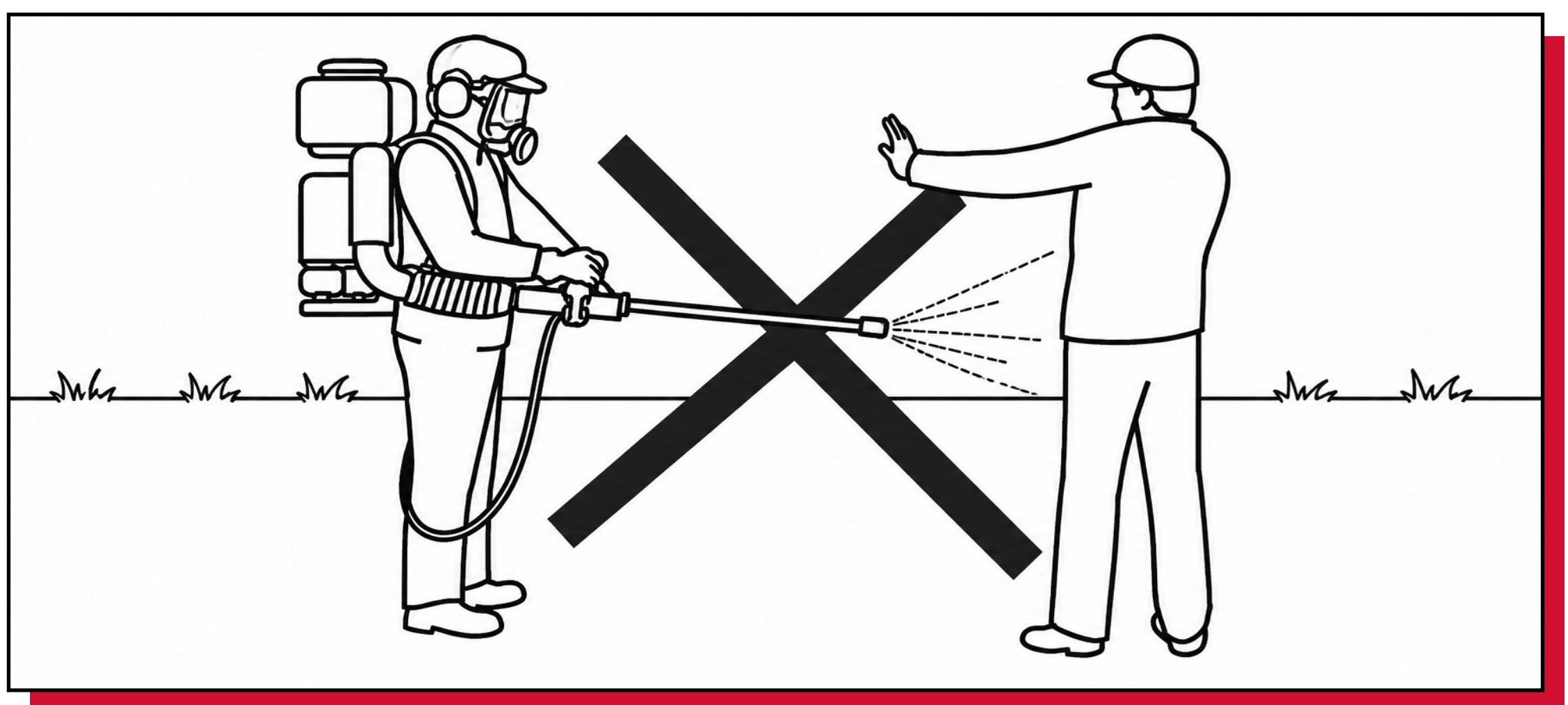
- Always turn off the engine before refueling; do not

refuel while the engine is hot.

- Slowly unscrew the fuel cap to release the pressure built up in the tank.
- Refuel only outdoors, in a well-ventilated area; immediately clean up any spills and check for leaks before starting the engine.
- Avoid skin contact with fuel and do not inhale its vapors; change your clothes immediately if they get wet with fuel.
- Periodically check that the fuel cap closes properly; vibrations from the equipment can loosen it and cause spills.
- Store gasoline and oil in approved and properly labeled containers, out of the reach of children.

During operation:

- The engine produces toxic exhaust gases (carbon monoxide, which is colorless and odorless) from the moment it starts; never operate indoors or in poorly ventilated areas.
- Do not smoke or bring open flames near the equipment while working with it or standing near it.
- Hold the equipment firmly and maintain a secure footing at all times. Do not direct the air stream or spray toward other people: it may propel objects or cause eye injuries.
- Exercise extreme caution on slippery surfaces (ice, moisture, snow), slopes, or uneven terrain; watch out for roots, ditches, holes, or other obstacles that could cause you to trip.



Using the spray attachment (fogging)

- Follow all safety rules and precautions specified by the manufacturer of the plant protection product being applied.
- Change your clothes immediately if they become

wet with the chemical or the prepared solution.

- Wear a respirator. Do not work against the wind.
- When finished working, empty and clean the container. Do not pour leftover solution or rinse water into waterways, drains, ditches, or sewers: they are hazardous to the environment.
- Always empty and clean the container before transporting the equipment in a vehicle.
- In an emergency, release the quick-release buckles, step out of the harness, and detach from the equipment.

Vibrations:

- Prolonged use of the equipment may cause circulatory problems in the hands (white finger syndrome). Symptoms include frequently cold fingers and tingling.
- Factors that increase the risk: low ambient temperatures and gripping the equipment too tightly.
- Frequent users should periodically check the condition of their hands and fingers and consult a healthcare professional if symptoms appear.

Maintenance and repair

- Do not perform any maintenance or repair tasks not described in this manual; these must be performed by an authorized service center.
- Do not modify the equipment under any circumstances.
- Always stop the engine and disconnect the spark plug cap before performing maintenance, repair, or cleaning tasks (exception: carburetor and idle adjustments).

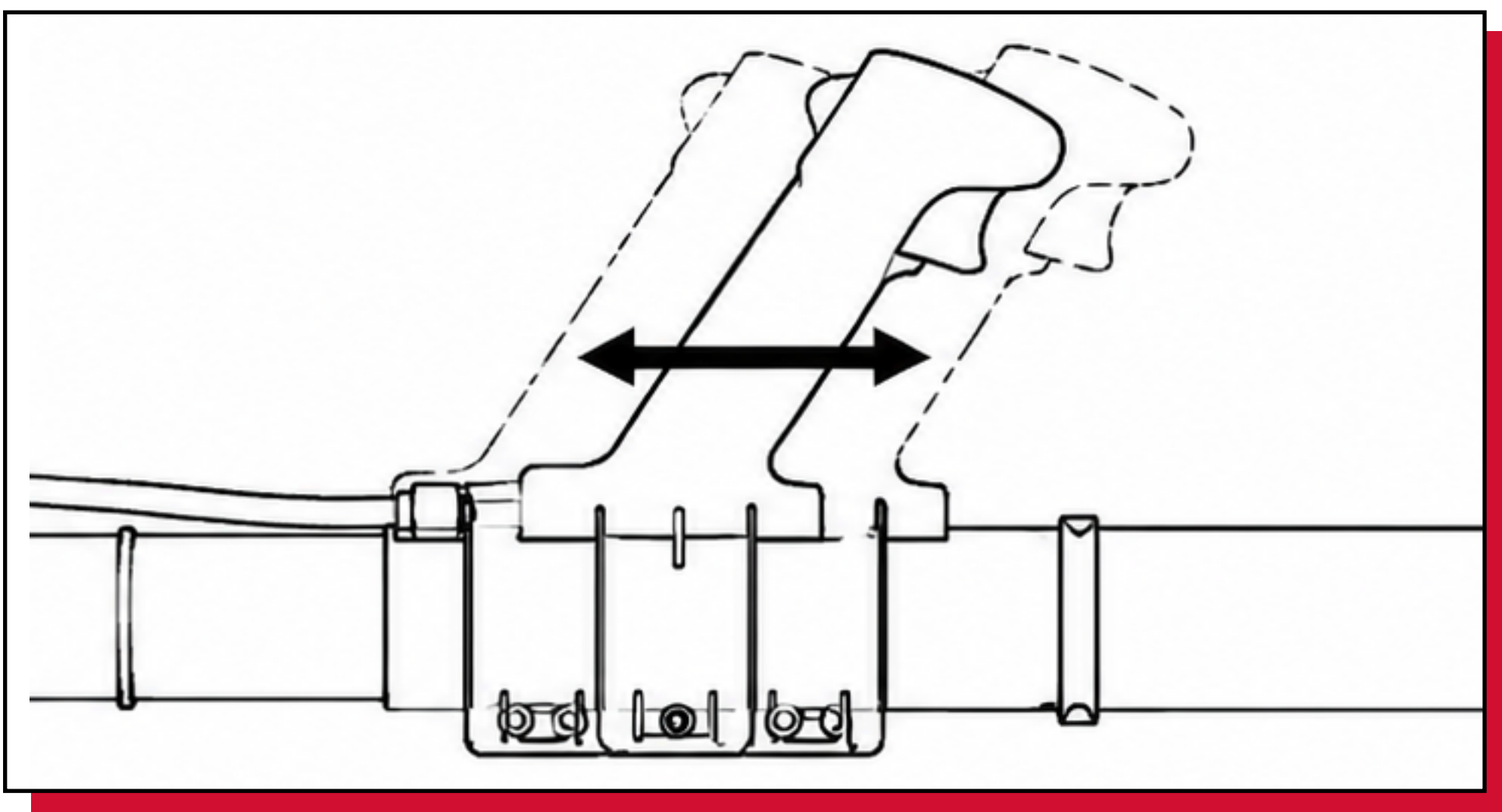
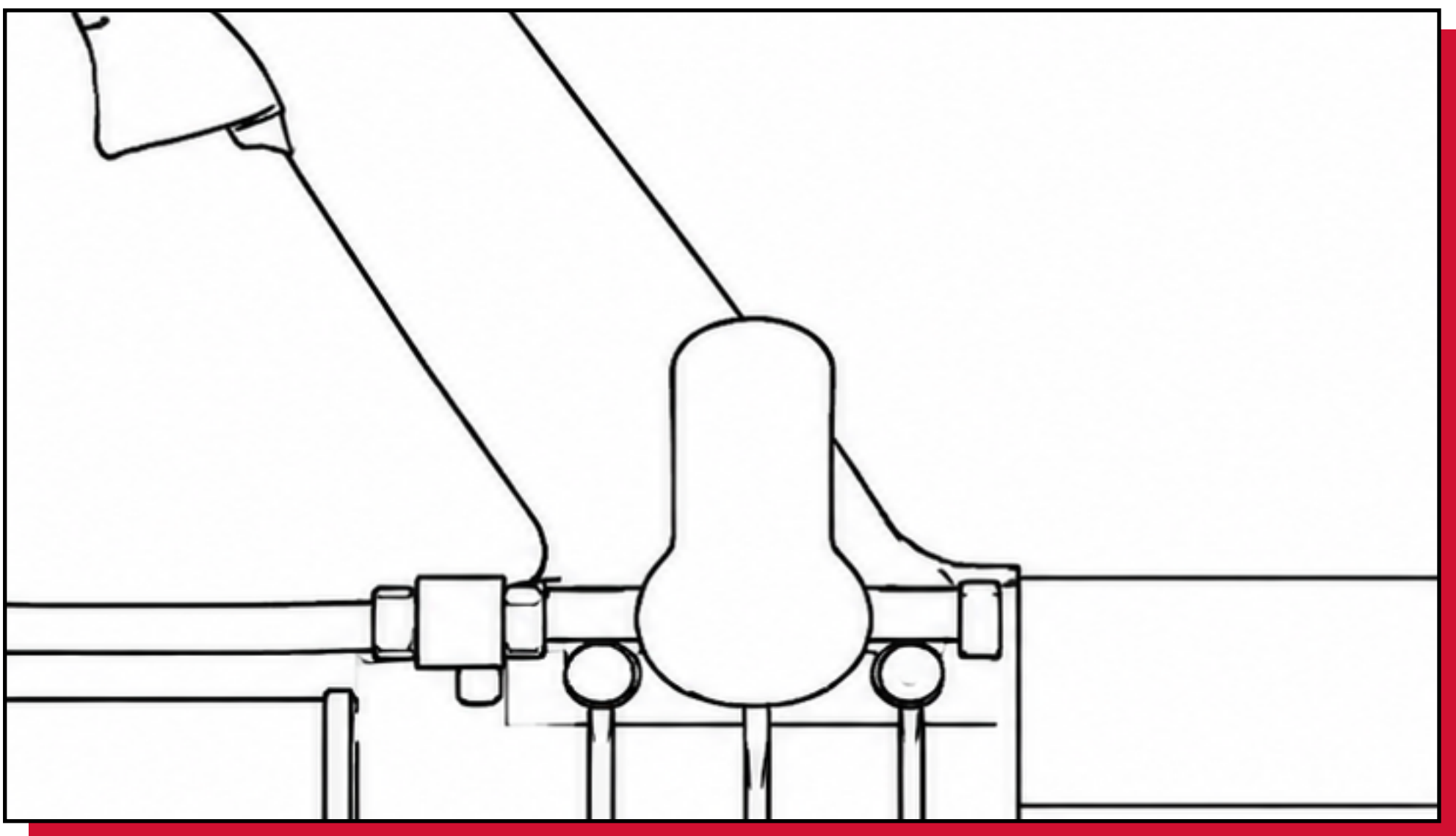
INSTALLATION AND START-UP

Assembling the sprayer attachment

Caution: Always ensure the engine is off, the spark plug is disconnected, and you are wearing protective gloves. Start the equipment only after it has been fully assembled.

- 1** Insert the extension tube into the corrugated hose as far as it will go.

- 2 Turn the tube to the left (counterclockwise) as far as it will go and hold it in that position while making the following adjustments.
- 3 Turn the control handle counterclockwise to the horizontal position.
- 4 Turn the extension tube counterclockwise until the metering unit is aligned with the control handle.
- 5 Tighten the control handle retaining screw.
- 6 Connect the fluid hose to the corrugated hose using the hose clamp.
- 7 Connect the open end of the fluid hose to the shut-off valve and secure it with the clamp.
- 8 Close the shut-off valve (lever in the vertical position), fill with water, and check for leaks at the connections.

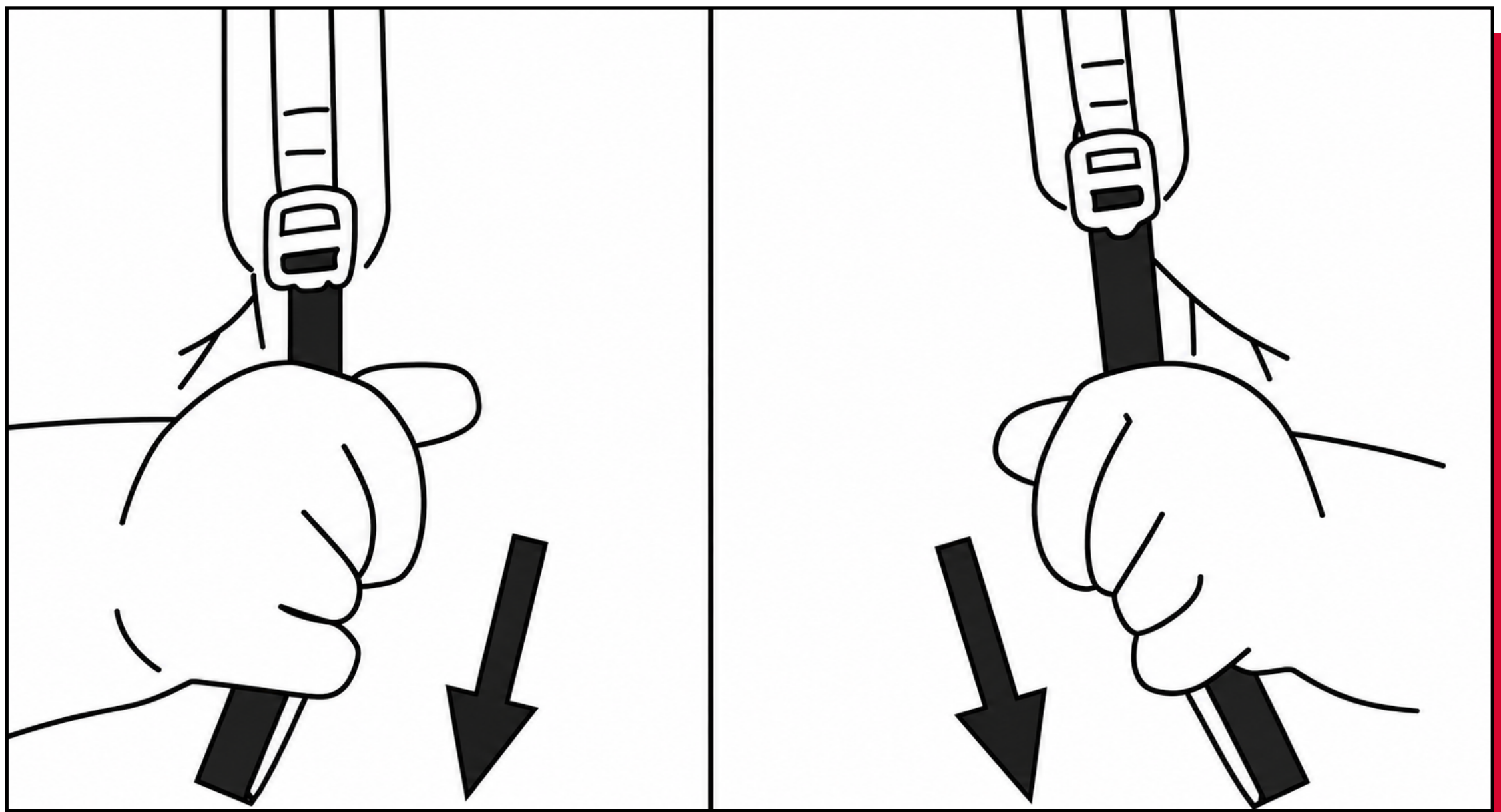


Adjusting the control handle:

- Put the equipment on your back.
- Loosen the retaining screw.
- Slide the handle to the most comfortable position and retighten the screw.

Adjusting the harness:

- Pull the ends of the straps downward to tighten the harness.
- To loosen, lift the tabs on the sliding adjusters.
- Adjust the straps so that the back plate sits firmly and comfortably against your back.

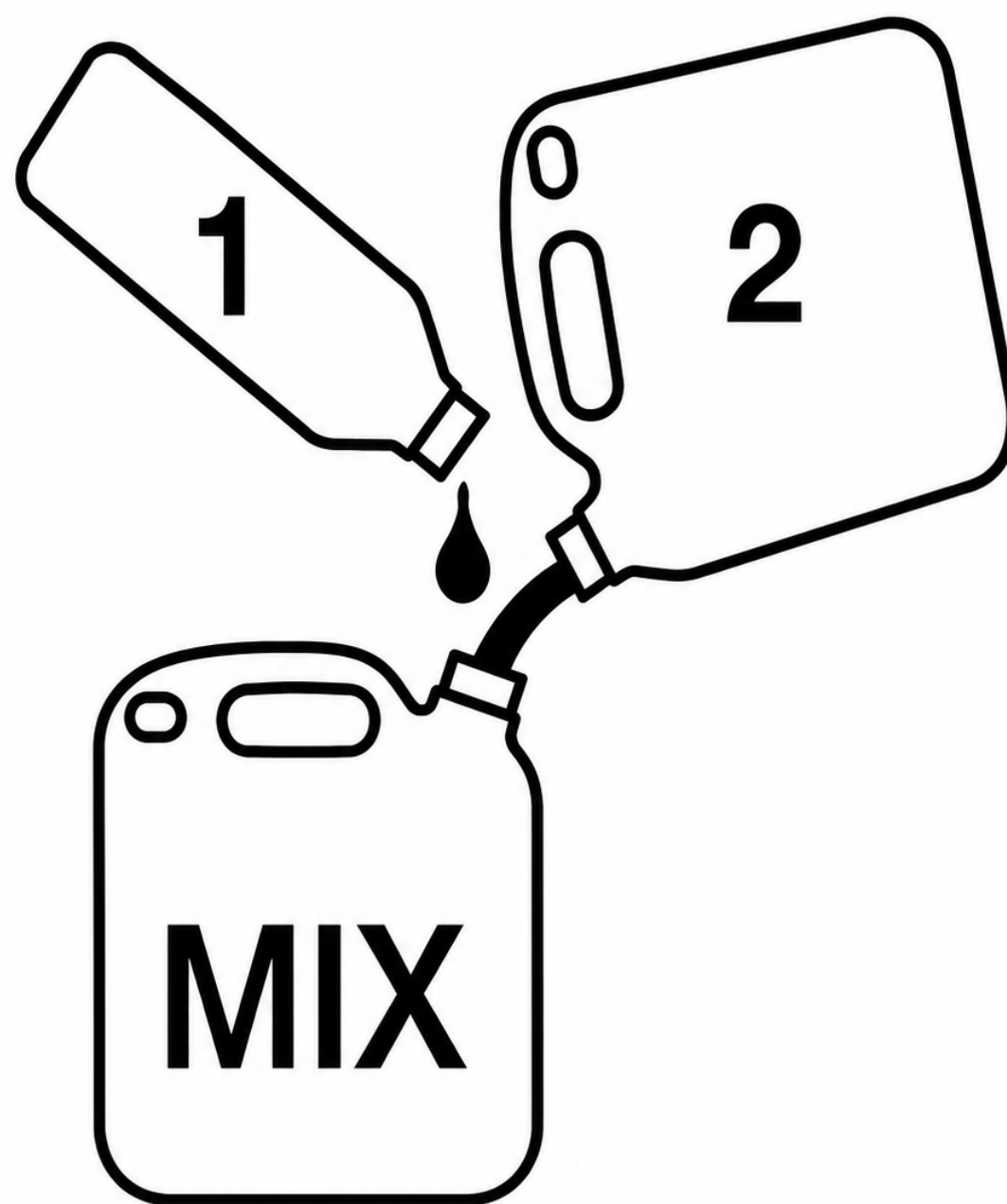


Fuel:

- The engine requires a mixture of gasoline and 2-stroke engine oil. The quality of these components and the mixture ratio determine the engine's performance and service life.
- Use a well-known brand of gasoline with a minimum octane rating of 90; unleaded gasoline is recommended. If the equipment is equipped with a catalytic converter, the use of unleaded gasoline is mandatory.
- Use only high-quality 2-stroke engine oil, TC grade.
- Mixing ratio: 25 parts gasoline to 1 part oil.
- Prepare the mixture in an approved fuel container: pour in the oil first, then the gasoline, and mix thoroughly.
- Prepare only the amount of fuel needed for a few months of operation; store in a cool, dry place in

approved containers. Shake the mixture well before each refueling; pressure may build up in the container, so open it carefully.

- Before refueling, clean the fuel cap and the surrounding area to prevent dirt from entering the tank; position the equipment with the fuel cap facing upward; do not overfill; tighten the fuel cap firmly by hand when finished.
- Replace the fuel strainer (internal tank filter) once a year.



Starting the engine – Cold start:

- Slide the stop switch to the “ON” position.
- Move the throttle lever to the center position (start position).
- Turn the fuel valve to the vertical (closed) position.
- Turn the choke knob to the cold engine position.
- Set the unit on the ground; make sure no one is near the work area or the nozzle.
- Hold the unit firmly with your left hand on the housing and place one foot on the base plate to prevent it from sliding.
- Slowly pull the starter cord with your right hand until you feel it catch, then give it a firm, decisive pull (without fully extending the cord, as it could break). Guide the cord back toward the housing; do not let it snap back suddenly.
- When the engine begins to start, move the choke lever to the open position.
- Move the throttle lever to the idle position as soon as the engine starts.

Stopping the engine:

- Move the throttle lever to the idle position and slide the stop switch to “OFF.”

If the engine won't start (flooded engine):

- Turn the stop switch to “OFF” and open the throttle fully.
- Pull the starter cord several times to clear the combustion chamber.
- Remove the spark plug, dry it, and reinstall it; reconnect the spark plug cap.
- Set the switch to “ON,” keep the choke in the open position—even if the engine is cold—and try starting it again.

Break-in period:

New equipment should not be run at high RPMs without a load during the first few times the tank is filled, as the moving parts still need to bed in. The engine reaches its maximum power after approximately 5 to 15 fuel fillings.

Filling the container:

- Prepare chemical mixtures outdoors or in well-ventilated areas. Thoroughly rinse all containers used to prepare the solution, calculating the exact amount needed to avoid creating excess.
- Never spray undiluted products.
- When filling the tank with water, keep the shut-off valve closed to prevent foaming and spills.
- Do not store the prepared solution in the tank for several days.

Dosing unit:

- The shut-off valve located on the control handle opens and closes the flow of solution to the nozzle. In the horizontal position, maximum flow; in the vertical position, flow is shut off.
- The discharge flow rate is continuously adjusted using the dosing knob on the nozzle: position “1” corresponds to the minimum flow rate and “4” to the maximum. The selected number must be aligned with the fixed mark on the nozzle.

Checking the operation of the dosing unit (without a pressure pump)

With the unit resting on the ground, fill the container with water up to the 10-liter mark and set the metering knob to “4.” With the deflector removed and the tube in the horizontal position, run the engine at full throttle and spray the contents until the 5-liter mark, timing the process. The time required to spray 5 liters should be between 80 and 100 seconds. If the time is longer, check the metering unit for possible contamination and clean it; also check the carburetor adjustment. If there is no improvement, contact technical support.

MAINTENANCE

Cleaning the air filter

Recommended interval: every 10 hours of use (daily in very dusty conditions).

A dirty air filter reduces engine power, increases fuel consumption, and makes starting the engine difficult.

- 1 Loosen the screws and remove the filter cover.
- 2 Remove the filter element and inspect it; clean it with a brush if it is dirty, or replace it if it is damaged.
- 3 Reinstall the filter element and tighten the cover securely.

Carburetor

The carburetor is factory-set to provide an optimal fuel-air mixture under most operating conditions. The high-speed (H) screw regulates power and maximum idle speed; setting it too lean can damage the engine due to lack of lubrication and overheating.

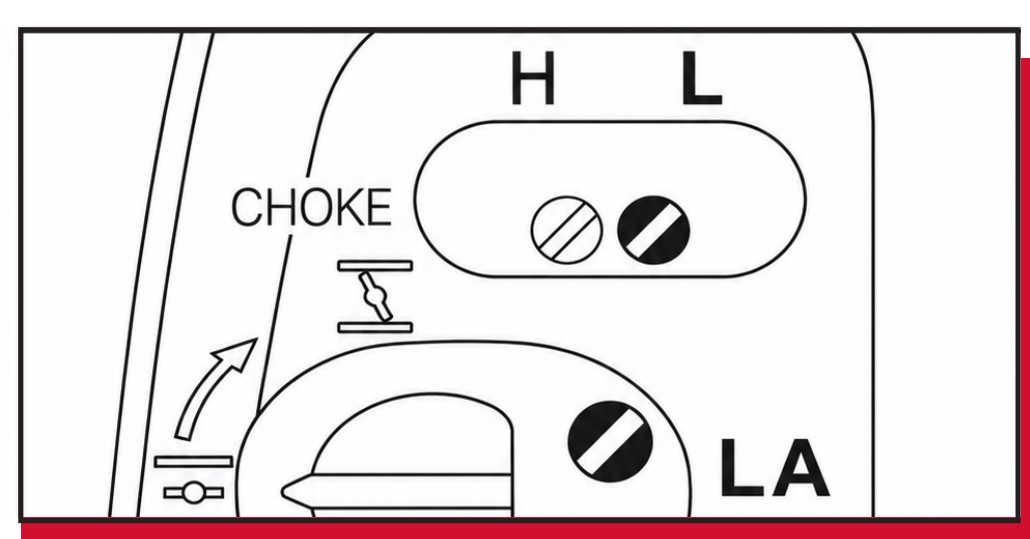
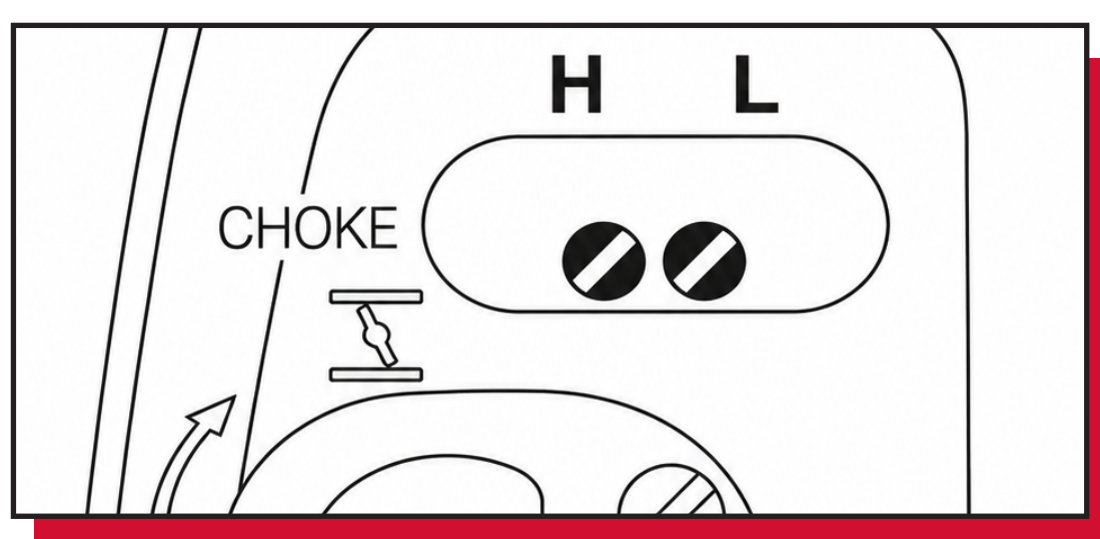
Standard adjustment — carburetor with limit stops: with the engine off, turn the high-speed (H) and low-speed (L) screws counterclockwise until they reach the stop, without exceeding 1/4 turn.

Standard adjustment—carburetor without limit stops:

With the engine off, turn both screws clockwise until they seat; then open each one a full turn.

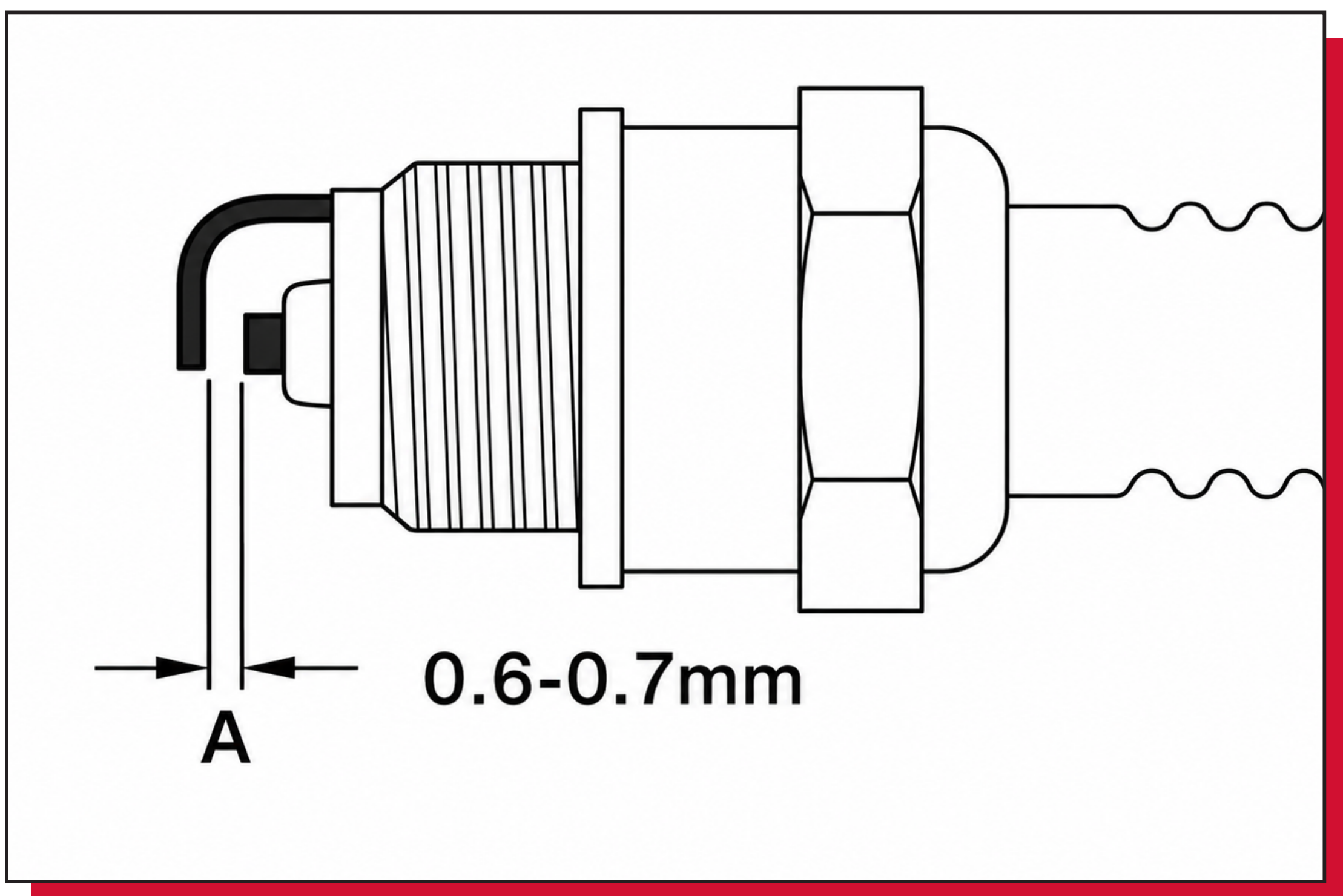
Irregular idle: If the engine stalls at idle, turn the idle screw (LA) clockwise until smooth operation is achieved. If the idle is rough or acceleration is poor, turn the low-speed screw (L) counterclockwise.

Fine-tuning for altitude: If a loss of power is detected when operating at high altitude, turn the H screw slightly clockwise (leaner mixture), without exceeding 1/4 turn on carburetors with limit stops.



Spark plug inspection:

- If the engine loses power, is hard to start, or idles poorly, check the spark plug first.
- Do not handle the spark plug while the engine is running; wait until it has cooled down.
- Check the electrode gap (0.6–0.7 mm) and adjust if necessary.
- Replace the spark plug approximately every 100 hours of use, or sooner if the electrodes are severely worn.
- Always tighten the cap securely onto the spark plug.



Engine performance:

If the engine is not running properly even though the air filter is clean and the carburetor is properly adjusted the problem maybe with the muffler; have it inspected at an authorized service center.

Equipment storage (for periods of 3 months or longer)

- Empty and clean the fuel tank in a well-ventilated area.
- Empty and clean the spray tank.
- Run the engine until the fuel in the carburetor is completely used up to prevent the diaphragm membranes from sticking.
- Thoroughly clean the equipment, paying special attention to the cylinder fins and the air filter.
- Store the equipment in a dry, elevated, or locked location, out of the reach of children and unauthorized persons.
- Do not expose the spray tank to direct sunlight for prolonged periods: UV rays can make the material brittle and cause leaks or breakage.

Tabla de mantenimiento

Component	Task	Before each use	Daily / Every 10Hours	Weekly	Monthly	Every 12 months	If problems or damage occur
Complete unit	Visual inspection for leaks	X					
Control handle	Check operation	X					
Air filter	Clean / replace		X				X – if damaged
Fuel filter	Inspect replace				X		X – if damaged
Fuel tank	Clean					X	
Carburetor	Check idle speed / readjust	X					X
Spark plug	Adjust electrode gap				X		X
Cooling air intake vents	Clean			X			
Muffler spark arrestor screen	Inspect / clean				X		X
Accessible screws and nuts	Tighten						X – as needed
Tank and hose	Visual inspection	X					
Metering unit	Inspect	X					

Anti-vibration components	Visual inspection / replacement	X					X — authorized service center
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Common replacement parts

- Spark plug
- Air filter element
- Fuel filter
- Corrugated hose, retaining clip, and clamps
- Starter cord and recoil spring
- Standard nozzle and deflector screens
- Fuel tank cap

TROUBLESHOOTING

Engine won't start / has trouble starting

Probable Cause	Solution
No fuel	Add fuel
Clogged fuel filter	Clean or replace
Kinked fuel line	Straighten the fuel line
Stale fuel (old fuel mixture)	Replace the fuel. Prepare only the amount needed for a few months of use
Excess fuel (flooded engine)	Remove and dry the spark plug. Pull the starter rope several times, reinstall the spark plug, and restart with the choke open
Loose spark plug boot	Connect it securely
Dirty spark plug or incorrect electrode gap	Clean the spark plug or adjust the gap to 0.6–0.7 mm. Replace it if the problem persists
Dirty air filter	Clean or replace
Weak starter pull	Pull the starter rope firmly and quickly

Engine starts but stops or runs erratically

Probable Cause	Solution
Choke closed while the engine is warm	Move the choke to the open position
Insufficient warm-up	Allow the engine to warm up for 2–3 minutes
Dirty or improperly adjusted carburetor	Clean it. Have it adjusted by an authorized service center
Incorrect idle speed adjustment	Readjust the idle speed screw (LA)
Clogged muffler or exhaust port	Have it inspected by an authorized

	service center
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Poor performance

Probable Cause	Solution
Dirty air filter	Clean or replace
Dirty carburetor	Clean it; have it adjusted by an authorized service center
Damaged or clogged muffler	Have it inspected by an authorized service center

Metering unit delivers less liquid than expected

Probable Cause	Solution
Dirty metering unit	Clean it; see “Checking the Metering Unit Operation”
Incorrect carburetor adjustment	Have it inspected by an authorized service center

LEGAL INFORMATION, WARRANTY, AND LIABILITY

INFOREST SRL warrants that the ZONDA 2T MIST Blower is free from defects in materials and workmanship at the time of delivery.

The warranty covers defects attributable to the manufacturing process, provided that the product:

- Is used solely for the purposes intended by the manufacturer.
- Is used by trained personnel.
- Undergoes the recommended inspections and maintenance.
- Has not been modified, tampered with, or repaired by personnel not authorized by INFOREST SRL.

The warranty does not cover:

- Normal wear and tear of components subject to regular use.
- Damage caused by misuse, negligence, or use outside the intended conditions.
- Damage caused by prolonged exposure to harsh chemicals, extreme temperatures, or unforeseen

environmental conditions.

- Damage resulting from improper cleaning or maintenance.
- Damage caused by dragging the product across abrasive surfaces or improper transport.
- Damage caused by impacts, accidents, or external factors.
- Alterations, modifications, or repairs performed by unauthorized third parties.



WARNING

Any repairs, replacement of structural components, or technical work must be performed exclusively by personnel authorized by INFOREST S.R.L. Unauthorized tampering with the product will result in the automatic voiding of the warranty.

Furthermore, INFOREST S.R.L. shall not be liable for damage to the product, loss or deterioration of transported items, detachment of improperly installed accessories, injuries resulting from improper load distribution or incorrect harness adjustment, or for any consequences arising from unauthorized modifications, repairs, or interventions, or from the use of the product under conditions other than those intended.

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