

**USER'S GUIDE (USBS)** 











### **CONTENTS OF YOUR RIPAGREEN KIT**



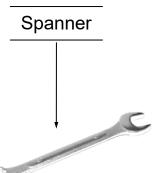
Thermal lance

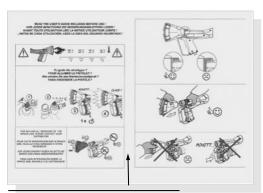
12 ft hose



RIPAGREEN pressure regulator







Quick-reference booklet







User's guide

### **CONTENTS OF TROLLEY BOX**

Trolley







## **HAND-OPERATED PROPANE GAS THERMAL WEEDER**

### **USER'S GUIDE**





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#### **WARNINGS**

#### TO BE READ BEFORE STARTING FOR THE FIRST TIME



#### **HAZARDS**



Do not use this device in regulated areas with specific fire or explosion hazards



Do not treat surfaces covered with dry grass or dead leaves to avoid any risk of fire.



Clear the area to be treated of any flammable objects. Avoid treating areas near very highly flammable resins

### **GUIDELINES**



Delineate a working area such that the tip of the thermal lance is always at least more than 1.5 m inside this area and prohibit access to unauthorised individuals



Warn and place signs around the area before starting work.

Supervise the area treated approximately 1 hour after treatment



Do not work near grass or dried leaves. Pay particular attention during windy conditions to the flame being carried and to flying objects on fire (twigs, leaves, paper, etc.). Do not work on non visible areas (door, garage, basement...)

Verify the material used in the construction of the walls, claddings, buildings of the treated area. If you are not aware of the composition of them, ask to the person in charge of the building. He will give you information on material and risks in the area treated. Define a path that avoids these risks.

#### **EQUIPMENT**



Have to hand an appropriate fire extinguisher or suitably-sized spray filled with water



Wear heat-resistant gloves while using the device



Avoid wearing highly flammable nylon or similar clothing This device is designed to treat weeds by thermal choc and is for professional use only.

Users of the RIPAGREEN kit must read this user manual fully and must be trained in the applications requiring this device.

This user manual must be kept for future reference.

Turn off the gas inlet if you move out of sight of your RIPAGREEN or your supply.

Squeeze the trigger to empty the gas supply pipe to release pressure.

Monitor the area treated for a time determined by the user depending on the usage conditions.

This device, like all gas-powered devices, consumes air and produces combustion gases containing both CO<sup>2</sup> and CO. CO is fatal at high concentrations.

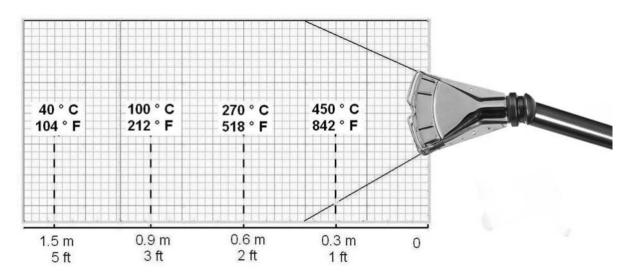
Never work indoors.

Before using, comply with the usage directives for liquid gases.

When operating, the device produces a flame. This flame is short and can be difficult to see outside. Never direct this flame towards yourself, other individuals or living beings, or towards the gas cylinder, hose and inaccessible area.

In front of the combustion area of the device, there is a hazardous area up to a distance of 1.5 metres (5').

The operator's attention is drawn to the fact that in this hazardous area, living beings may suffer burns and assets may be damaged or even burst into flames.



Always contact your RIPAGREEN distributor whenever carrying out maintenance or changing spare parts.

Before using your Ripagreen after a **period in storage or if it has not been used for while**, check the thermal lance and the trolley thoroughly for any gas leaks, clogging of the combustion nozzle or cuts in the hose. To find out which procedures to follow, refer to the "Connections" and "Troubleshooting" sections.

Ensure you comply with the national regulations in force when transporting industrial gas cylinders in a vehicle.

To **transport your gas cylinders**, make sure you:

- Close the valves, even if the cylinders are empty.
- Remove the equipment for transport.
- Lash your cylinders down firmly.
- Do not leave cylinders stored in your vehicle.
- Use an appropriate vehicle (ventilated, with separation)

The RIPAGREEN uses a High Velocity Heating System with air propane gas diffuser.

It is lit by a piezoelectric igniter which acts when the gas supply is opened by pressing the trigger, the only control device.

The RIPAGREEN is a safe thermal lance which has a number of **safety** systems.

- o Its original, patented design provides combustion without heating the combustion nozzle (**cold nozzle**). In spite of this, when weeding, the **heat reflected** from the ground causes a limited rise in temperature.
- A safety valve system shuts off the gas inlet if the hose breaks or is torn away.
- o A fail-safe, "dead man" device shuts off the gas automatically if the trigger is released. This **stops the heat immediately**. This fail-safe device must under no circumstances be blocked open by any means whatsoever.
- o A trigger guard prevents it being turned on inadvertently.

# DEVICE OPERATING ON PROPANE GAS TECHNICAL DATA FOR THE THERMAL LANCE:

	SI system		
pressure (bar)	1.5	to	3.5
power (kW)	45	to	76
consumption (kg/h)	2.9	to	5.2
air intake (m3/h)	39	to	70
CO emission by % vol	0.0052	to	0.0021
CO2 emission by % vol	2.81	to	4
noise level	<85 dbA		
length	1.6 m		
weight	2 kgs (without hose)		
energy source	propane		
	Imperial system		
pressure (PSI)	21	to	50
power (btu/h)	153000	to	259323
consumption (lbs/h)	6.6	to	11.7
air intake	1340 cu.ft/h	to	2400 cu.ft/h
CO emission by % vol	0.0052	to	0.0021
CO2 emission by % vol	2.81	to	4
noise level	<85 dbA		
length	63 inches		
weight	4.4 lb		
energy source	propane		

### TECHNICAL DATA FOR THE TROLLEY:

WEIGHT: 13.6 KG (30 LBS)

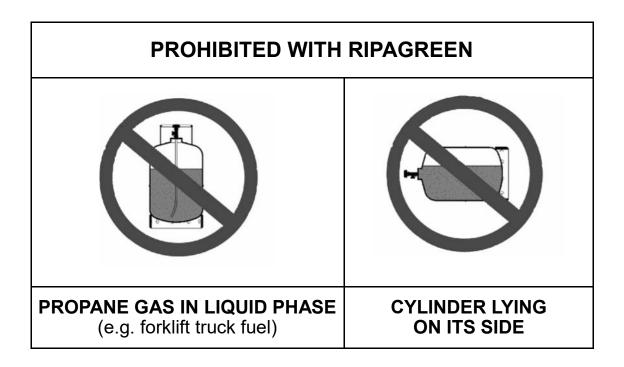
WHEELS: SOLID PUNCTURE-PROOF

TILLER: STAINLESS STEEL

#### **STARTING**

Before starting, you must have read and must comply with the information contained in the "Warning" section.

The ORIGINAL hose and RIPAGREEN regulator supplied with this device must be used.



The RIPAGREEN operates with **PROPANE** gas in gas phase contained in cylinders of various capacities.

For its use with the trolley we recommend the 13 kg / 30 pounds cylinders







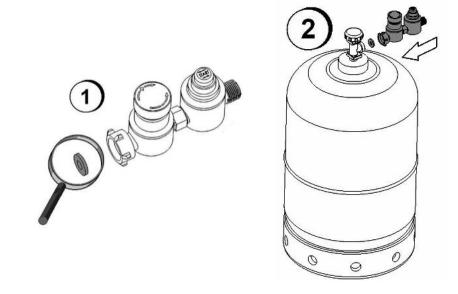
Ripagreen kit can be used with BBQ cylinder.

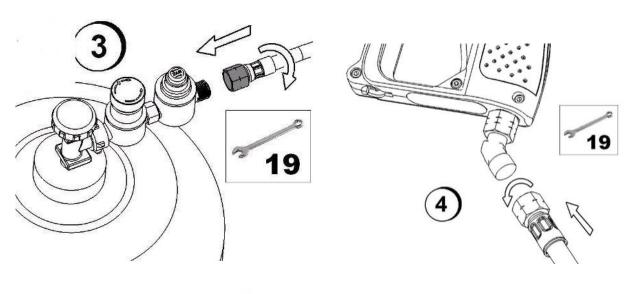
Always connect and disconnect cylinders away from any flame or ignition source.

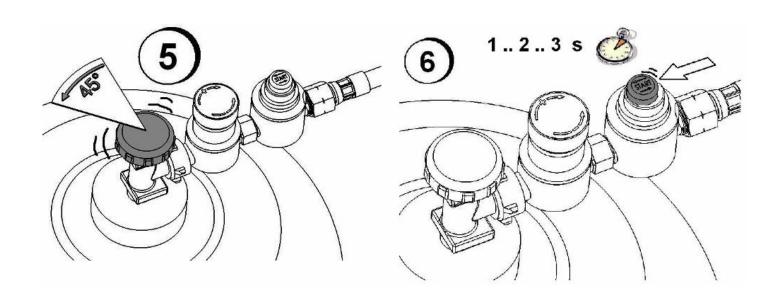
### **CONNECTIONS**

Before connecting the RIPAGREEN pressure regulator to the gas cylinder, ensure that the seal is correctly installed for systems connected this way.

In other cases, ensure the contact surface of the fitting is clean.

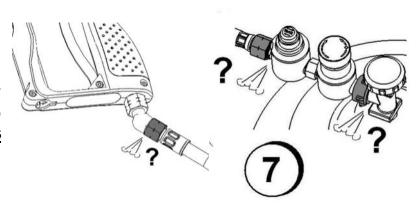




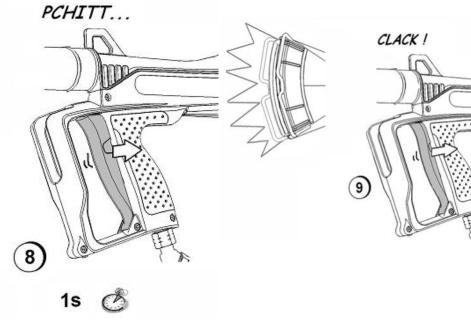


#### SEALING:

Using a bubble spray or soapy water, ensure there are no leaks on <u>threaded parts</u> (cylinder, pipe and gun fittings).



## IGNITING THE RIPAGREEN





ADJUSTING THE POWER

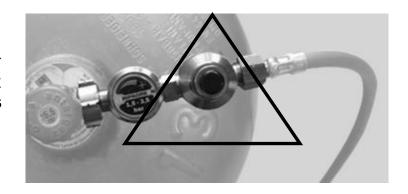


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## NEVER HOLD DOWN THE RED BUTTON WHILE WORKING

The RIPAGREEN pressure regulator automatically **shuts off** the gas inlet when the **pressure** delivered **drops** below the minimum threshold needed for normal working efficiency.



#### This means:

- Either that the cylinder is practically empty (there are only a few minutes' usage remaining at a very reduced pressure: change the cylinder):
- Or that the temperature of the cylinder has lowered after intensive use (icing): in this case temporarily change the cylinder or wait until normal pressure returns particularly when working outdoors (0°C / 30°F and below).

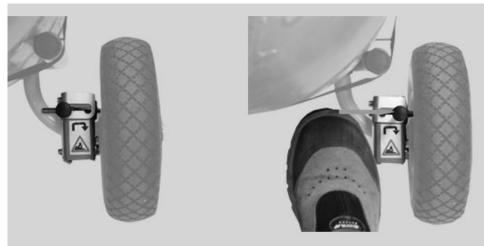
## NEVER HEAT A GAS CYLINDER WITH A FLAME.

WHEN WORK HAS FINISHED, ALWAYS CLOSE THE VALVE OF THE GAS CYLINDER AND DRAIN THE SUPPLY PIPE BY PRESSING THE TRIGGER



The simple foot-operated brake allows the operator to immobilise the trolley securely to allow them to continue working knowing the trolley cannot move.

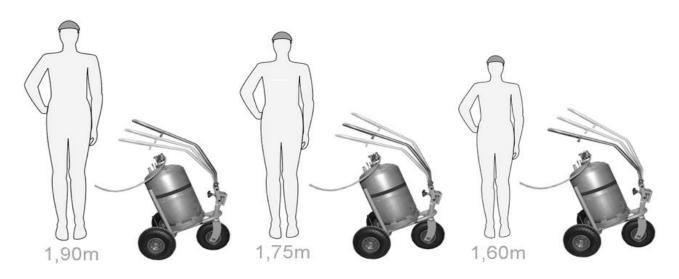




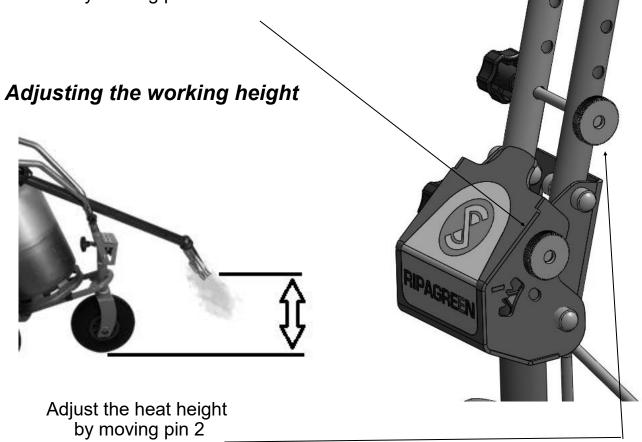


### Adjusting the height of the tiller

The tiller adjusts to the height of the user



Adjust the height by moving pin 1



#### **USAGE MODES**

#### **PULL MODE:**

To move from one place to another. Use:

- the tiller hook for the gun
- the tube holder for the thermal lance

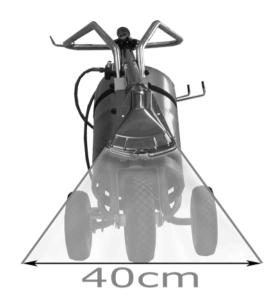




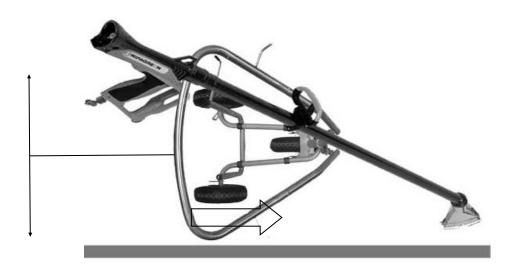
### **PUSH MODE:**

Place the thermal lance on the tiller and simply work by rolling the trolley along.

We recommend this mode which covers 40 cm heating width and ensures effortless movement. The RIPAGREEN thermal lance can still be moved to the right or left in order to work accurately at the toe of walls or over a given area. Placed in the centre, the RIPAGREEN thermal lance will cover a strip 40 cm wide.

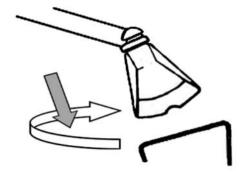


Moving it around the tiller gives the option of weeding to the side of the trolley while moving straight.



#### ROTATING THE COMBUSTION NOZZLE

The direction of the nozzle improves the efficiency of the RIPAGREEN.



For example, when working along a pavement, you can direct the heat parallel to it.



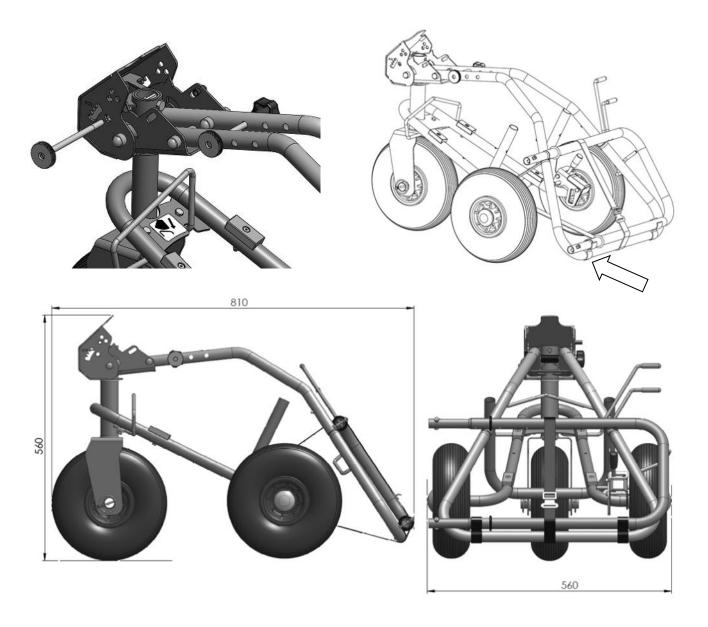
#### **HOSE STORAGE**



The swivel connector of the lance can rotate. This makes it easy to undo loops in the hose.

#### TROLLEY STORAGE

Keep the arm folded back using the pin (4<sup>th</sup> position in addition to the 3 setting positions). Clip the U-piece on the moving arm using the plastic clips and attach with the strap.



#### TRAINING/PRINCIPLE OF THERMAL WEEDING

Anyone operating our equipment must receive training. Your dealer is happy to provide training and give advices on treating weeds with RIPAGREEN.

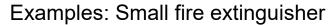
Safety concepts must of course be taken into consideration, some of which are described in this manual. In addition to these safety concepts, tips on how to use the RIPAGREEN correctly will allow you to work more efficiently, consume less gas and obtain the best results with our RIPAGREEN products.

You are also invited to visit our site www.ripagreen.com to watch tutorial or presentation videos which also enable you to keep your knowledge up to date.

#### ADAPTABLE TROLLEY-MOUNTED OPTIONS

The rear arm allows additional equipment to be adapted:







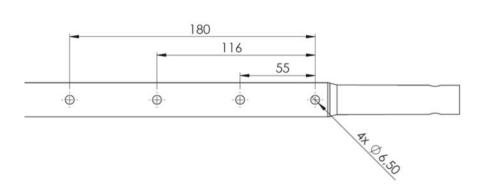
Water-bottle holder

Pre-drilled holes are provided for fitting the following:

Cycle bottle holder (standard centreline distance) or water tank

• 2 sizes of fire extinguisher (check the centreline distances depending

on brand)





#### WARRANTY

Your RIPAGREEN High Velocity Heating System has undergone numerous tests and inspections during manufacture.

Each component meets demanding specifications which guarantee performance and adaptability.

For all maintenance and parts replacements, the RIPAGREEN network ensures you will be supplied with spare parts which comply with RI-PAGREEN's specifications, a proof of quality and safety.

#### RIPAGREEN WARRANTY:

GUARANTEE OF SATISFACTORY OPERATION for a year subject to the conditions:

- ⇒ that the device has been used in compliance with the user's guide;
- ⇒ that it has not undergone dismantling operations other than those described in the manual;
- that the geometry of the device is intact (e.g. no distortion of the body of the device, protecting wires and combustion nozzle tips, no distortion of threads, etc.).

#### The warranty does not apply to the following wear parts:

- ⇒ Piezoelectric igniter,
- ⇒ High-pressure hose,
- ⇒ Wheels / trolley,
- ⇒ Cylinder holding strap / trolley.

WARRANTY FOR THE ALUMINIUM BODY: 5 years (under the conditions of the satisfactory working warranty above).

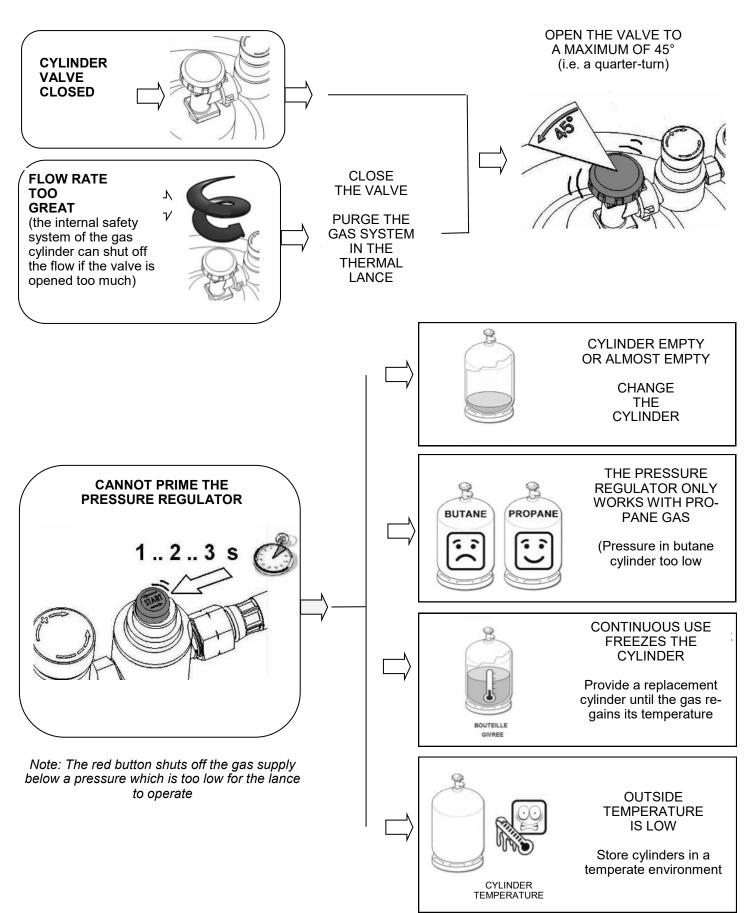
All replacement parts must be RIPAGREEN original parts. The manufacturer accepts no responsibility or appeal if the above instructions and provisions are ignored.

RIPAGREEN cannot be held liable for accidents caused to persons or assets through incorrect use or use not specifically provided for in the manual. In the event of a dispute, the Courts of Bordeaux-France shall alone be competent. No other jurisdiction shall be accepted.

The use or resale of the RIPAGREEN implies full acceptance of the above conditions.

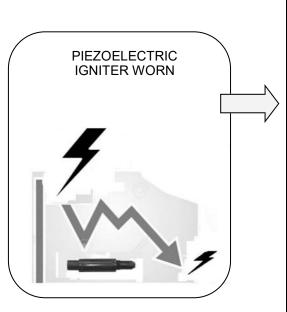
If making a claim under the warranty, please attach a copy of the invoice from your supplier.

## TROUBLESHOOTING: >> NO GAS EMERGING FROM THE THERMAL LANCE



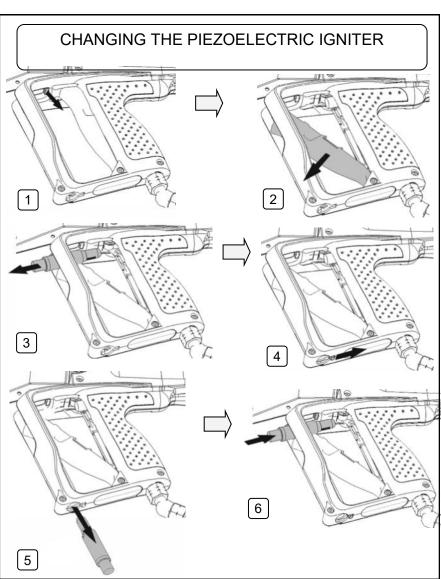
Note: The pressure of the gas in the cylinder is proportional to the gas temperature

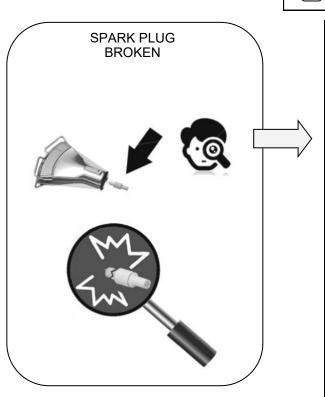
## TROUBLESHOOTING: >> DIFFICULTIES IGNITING THE THERMAL LANCE

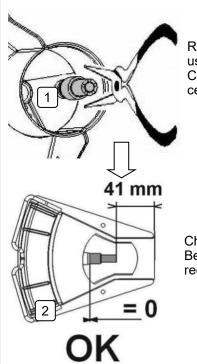


The piezoelectric igniter looses its electrical properties every time it is used

Part number of spare piezoelectric igniter: 131003RG



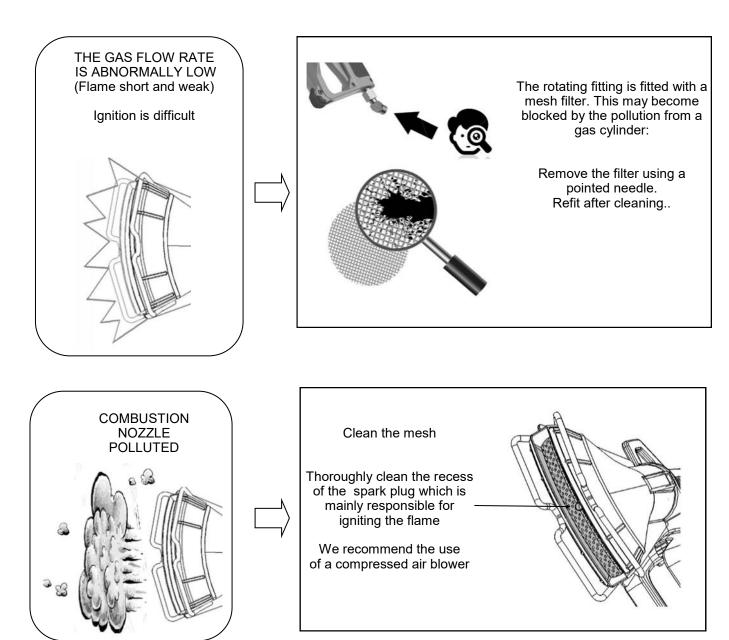




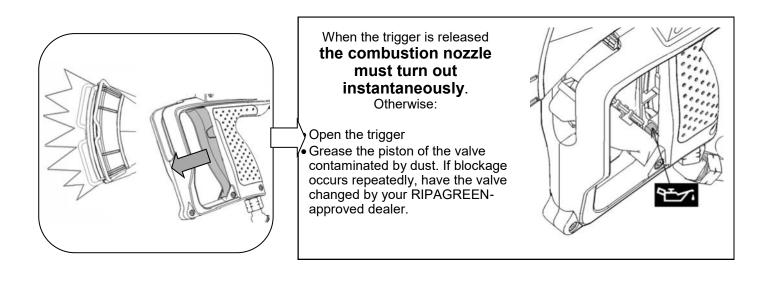
Remove the spark plug using flat-nosed pliers. Check whether the ceramic is broken

Change the spark plug if needed. Be careful to clip the plug in its recess (it must not fall out)

## TROUBLESHOOTING: >> DIFFICULTIES IGNITING THE THERMAL LANCE



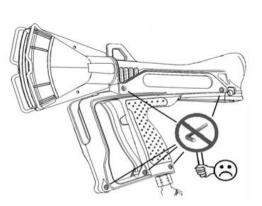
## TROUBLESHOOTING: >> GAS DOES NOT SHUT OFF AFTER THE TRIGGER IS RELEASED



#### SPARE PARTS

## Contact your dealer for any work requiring the RIPAGREEN to be dismantled

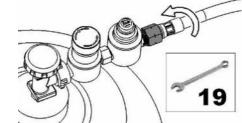
The only operations permitted are described in the maintenance section.



# SEFMAT (MANUFACTURER OF THE RIPAGREEN BRAND) ACCEPTS NO RESPONSIBILITY IF THE GUN IS DISMANTLED BY A PERSON WHO IS NOT QUALIFIED TO CARRY OUT MAINTENANCE OPERATIONS.

#### Checking the RIPAGREEN regulator:

EVERY 500 H OR EVERY QUARTER at least, check the safety device which protects against hose failure (incorporated in the regulator) as follows:



- 1. Go outdoors, far from any source of inflammation, spark or ignition.
- 2. Pressurise the device; using the wrench provided, loosen the hose fitting nut and fully unscrew it: the gas should cut off.

#### Checking the RIPAGREEN:

#### **EVERY DAY** before start of work:

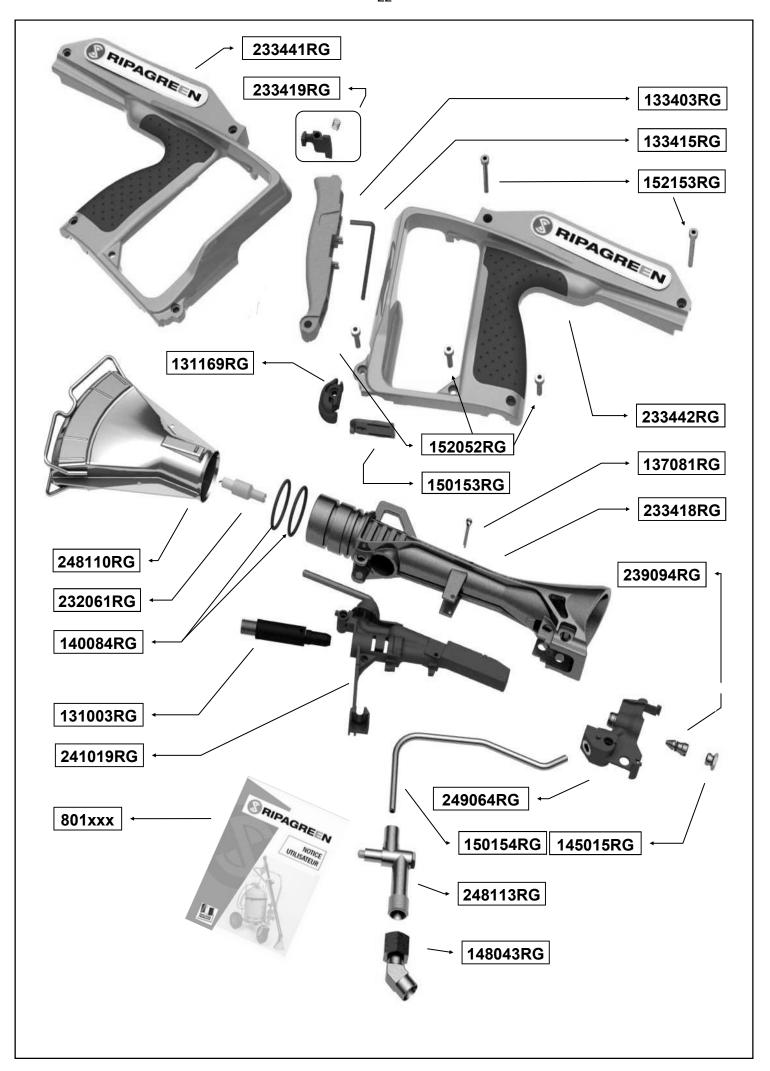
Check the whole length of the hose and its connectors are in good condition.

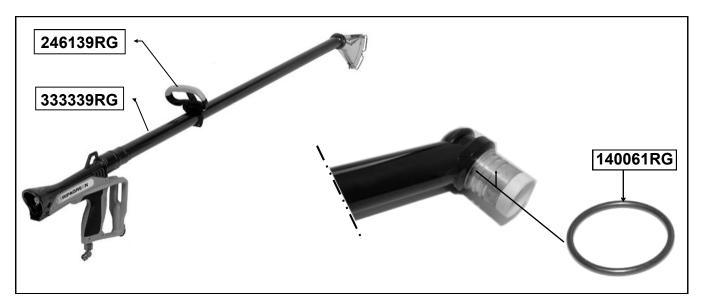
- 1. We recommend replacing it in the following cases:
- When a visual examination reveals damage (cuts), even superficial ones.
- Every 3 years if used intensively
- No later than every 5 years after commissioning
- Note: the date shown on the hose is its date of manufacture.

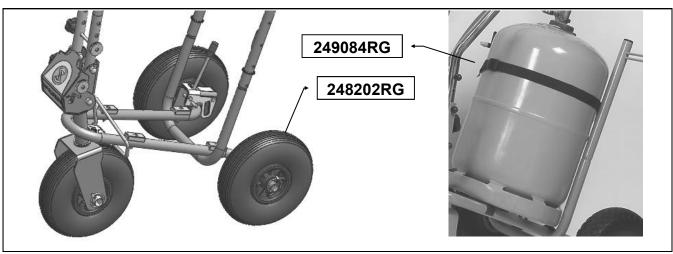
## Only use a replacement hose provided by RIPAGREEN with its original crimped connectors!

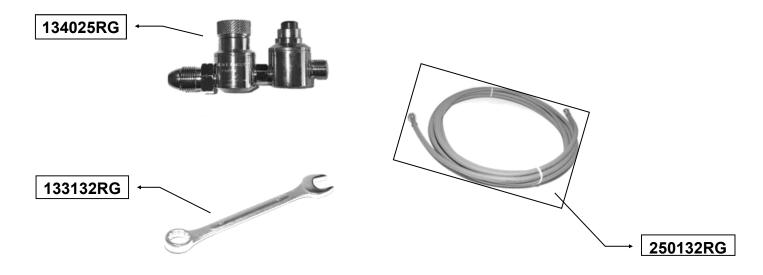
2. Check the gas supply shuts off by releasing the trigger See: GAS DOES NOT SHUT OFF on the previous page







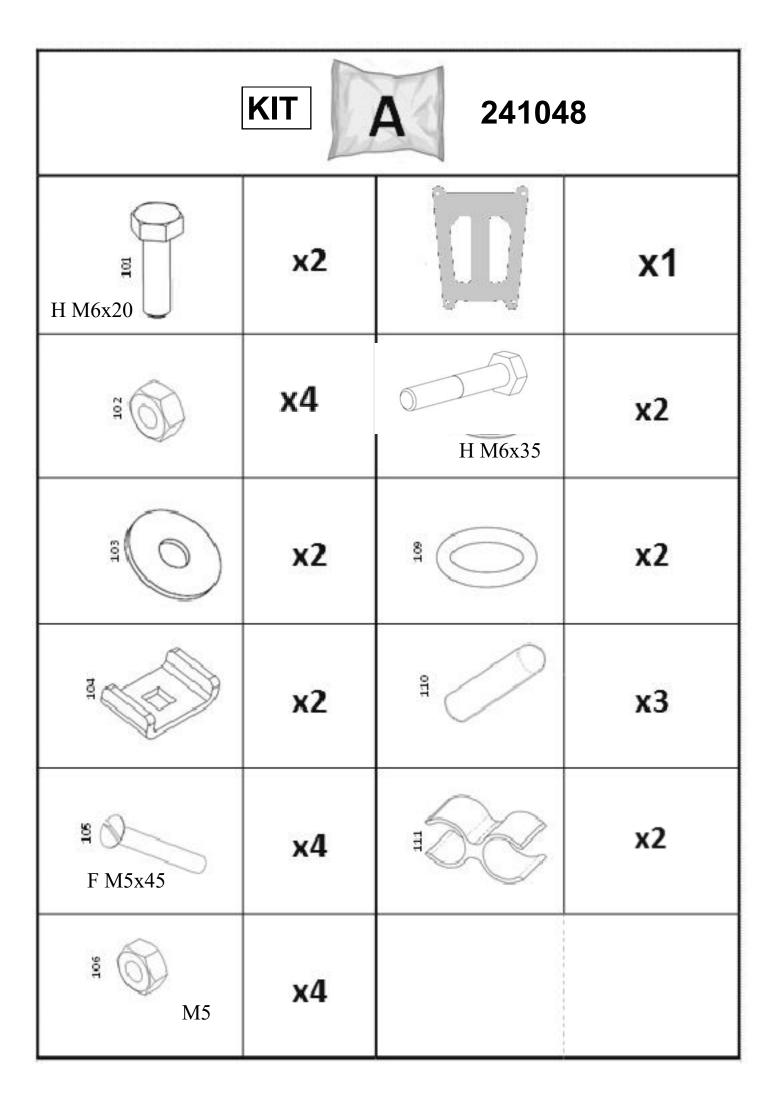


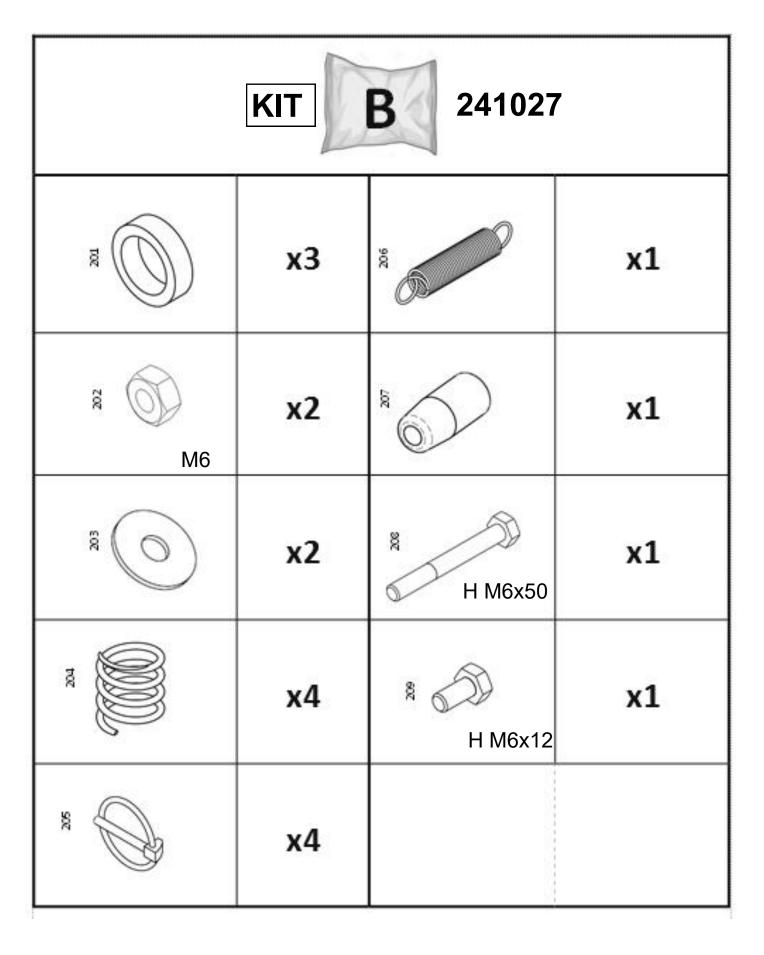


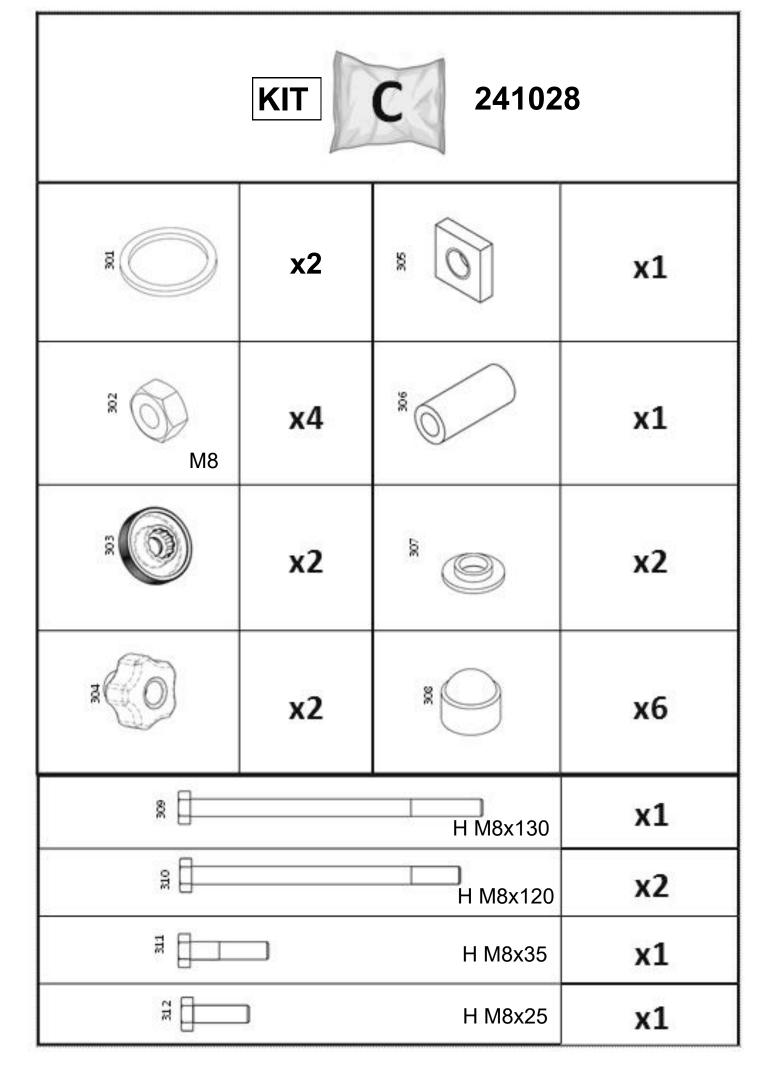
### **OPTION:**

8 METERS long hose (Standard length supplied 12 FT)
Reference: 250072RG









Item code	Description
131003RG	Piezoelectric igniter for RIPAGREEN
131132RG	19 mm spanner
133169RG	Snubber
133403RG	Trigger
133415RG	3 mm Allen key
134025RG	Pressure regulator including double-safety system
137081RG	Weight pin
140054RG	Pressure regulator O-ring
140061RG	O-ring I/D 28.24 x 2.62 UL for extension
140084RG	O-ring I/D 34.82 x 3.53 UL
145015RG	Jet cover nut
148043RG	Swivel connector
150153RG	Piezoelectric igniter hatch
150154RG	Aluminium gas supply pipe
152052RG	Allen screw M4x16
152153RG	Allen screw M4x35
232061RG	Spark plug
233418RG	Body with O-rings
233419RG	Pawl + spring
233441RG	RH half-handle + RIPAGREEN label
233442RG	LH half-handle + RIPAGREEN label
239094RG	Propane jet
241019RG	Electric connection kit
248110RG	Combustion nozzle
248113RG	Gas valve
249064RG	Complete jet support (includes: support, injector, cap)
250132RG	Hose length 4 METERS I/D 4, with collars and fittings (standard)
250023RG	Hose length 8 METERS, I/D 4, with collars and fittings (option)
801xxx	RIPAGREEN User's manual
246139RG	Handle
333339RG	Thermal lance with handle, electric connection kit and O-rings
241048RG	Trolley threaded fastener kit A (usa)
241027RG	Trolley threaded fastener kit B
241028RG	Trolley threaded fastener kit C
248202RG	Puncture-proof wheel
249084RG	Cylinder strap



## DECLARATION DE CONFORMITE CE EC-DECLARATION OF CONFORMITY



7 Rue de Betnoms 33185 LE HAILLAN France

Déclare que le produit : Hereby declares that the product:

#### **RIPAGREEN**

Destiné à la production d'une flamme produite par la combustion de GPL Designed to produce a flame produced by the combustion of LPG

Est en conformité avec les directives CE Is in conformity with CE regulations

> Fait au Haillan, le 01 Janvier 2016 Le Haillan, January 1st, 2016

> > Le Président President



CERTIFICATIONS INTERNATIONALES POUR LA LANCE THERMIQUE WORLD CERTIFICATIONS FOR THERMO LANCE







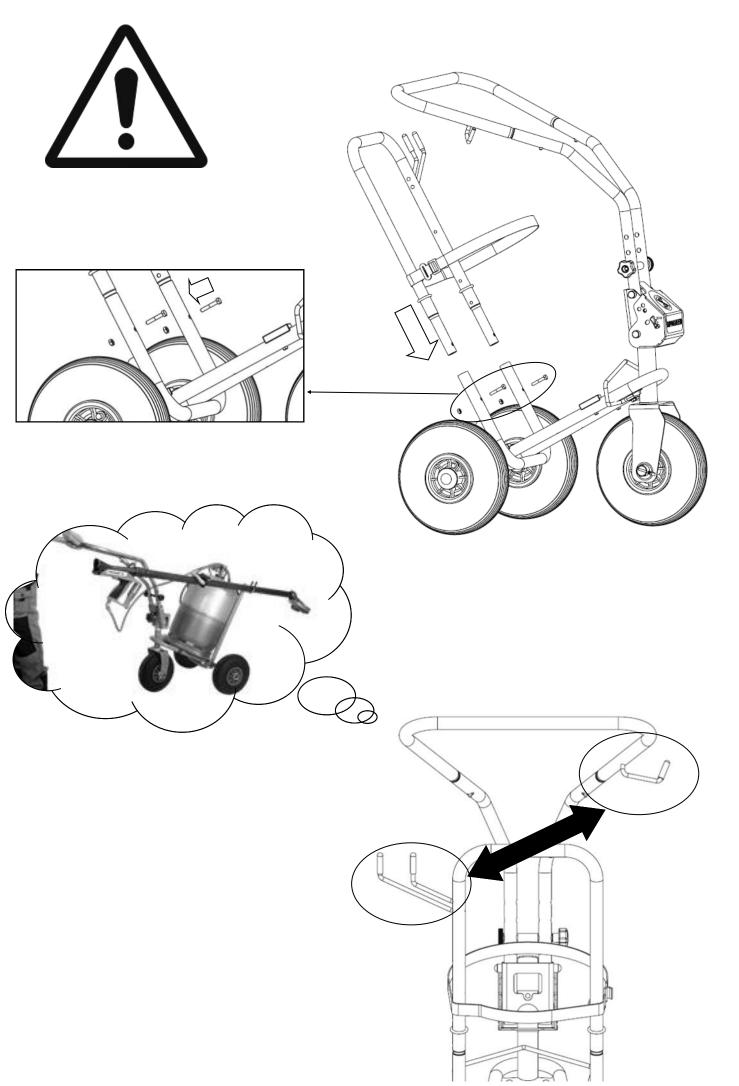














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