



INSTRUCTION MANUAL

(Original Instructions)



Weight (Fully Loaded): 7.5kg
Lance Weight: 1.2kg



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WARRANTY INFORMATION

Thank you for the purchase of your Ecogum machine.

This warranty applies to physical goods, and only for physical goods, purchased directly from Eco Removal Systems or authorised distributors. This information is relevant to purchases in the United Kingdom only. For purchases in other countries, please contact the original point of purchase.

What does it cover?

This warranty covers any defects in material or workmanship under normal use during the Warranty Period. During the Warranty Period, Eco Removal Systems will repair or replace, at no charge, products or parts of a product that proves defective because of improper material or workmanship, under normal use and maintenance.

What is not covered?

This warranty does not cover any problem that is caused by:

- conditions or malfunctions not resulting from defects in material or workmanship.
- the use of non-Eco Removal Systems consumables; this will result in the warranty being voided.
- damage or wear and tear.

If a product is assessed and determined as not covered under warranty, the customer will be liable for transport, labour and parts costs associated with the repair. In the event a product is assessed and determined to be fully working and not needing of any repair, the customer will be liable for transport and a labour charge for assessment.

What will we do?

Eco Removal Systems will repair the product at no charge, using new or refurbished replacement parts. We will also arrange the collection and return using our own courier. If you choose to use your own transport, we cannot cover these costs.

The Warranty Period

The Warranty Period for Ecogum machines is 12-months from the date of dispatch. Please contact us if you wish to extend your warranty period.

What do you have to do?

To obtain our warranty service, you must first contact us to run through some troubleshooting to determine the problem. Once the problem is determined, we will arrange collection of your product, if it is determined that it needs to be assessed by our engineers.

Please have your serial number of the machine to hand. You will find this inside the backpack compartment area behind the power lead connector on the ABS casing.

Servicing

The Ecogum E-MaxE should be serviced every 12 months by Eco Removal Systems or an authorised agent only.

SAFETY

IMPORTANT SAFETY INFORMATION

READ ALL INSTRUCTIONS BEFORE OPERATING THIS MACHINE

Do not use the E-MaxE unless you have read and understood the operating instructions manual. In the event of a breakdown contact the manufacturer or authorised distributor.

When using this machine, basic precaution must always be followed.

Always keep the unit upright when operating and keep the lance held in an upright position always.

When operating the E-MaxE, be mindful of your surroundings and only move when it is safe to do so.

Lance not to be rested on any surface when in use and always switch off when not in use.

The rechargeable batteries have been designed to be fully charged **BEFORE** each use.

Only use manufacturer approved solution for the safe operation of the machine. Using other consumable items in the machine invalidates the warranty and will lead to damage of the internal parts of the machine and may pose a risk to the operator.

Misuse or use of other detergents may adversely affect the safety of the machine. This will also invalidate the warranty cover.

Never disconnect the lance or tamper with the lance.

Please read the safety label on detergent bottle. Please contact us if you require the MSDS for the gum remover solution.

Always wear appropriate PPE and beware of areas on the machine that may get hot.

Never leave the machine unattended, except when in storage.

Always dispose of equipment responsibly. Always dispose of lithium-ion batteries by approved disposable methods.

Always store the machine inside or in an area that is dry.

Subject to change without prior notice, please contact us for the latest information.



BATTERIES: CHARGING

CHARGING

Included with your machine are two separate batteries (unless you have purchased additional batteries). The connection on the gum removal charger is the same red/black connector used to connect the battery to the machine. Line up the red and black connections and push them until they click into place.



Battery Connection



Charger Connector

On your charger, there is a small LED light. **RED** = charging. **GREEN** = fully charged. It takes approx. 100 minutes to charge each battery.

IMPORTANT: Always make sure the battery is plugged in before switching on the charger.

Always remove before charging. Always fully charge before use.

Make sure your battery voltage matches with your charger.

Always place the charger in well-ventilated, dry environment.

Indoor charging only, never expose the charger to water such as rain and splashing.

Never charge other type batteries except these specific models.

Ensure good ventilation is provided when chargers in operation.

Never place the charger near a radiator, heat register or similar heat source when charging.

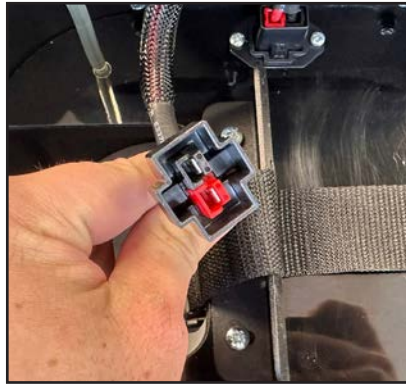
BATTERIES: INSTALLATION

INSTALLATION

The Ecogum E-MaxE uses a lithium-ion battery to power the machine. These batteries are fully interchangeable and connect to the unit via a power cable located inside the backpack, near the battery cradle.

This cable utilises a red/black Torberry connector.

Battery Connector
Socket



Power lead
Connector

Battery Installed



To install the battery, place it into the cradle and fasten the retaining strap. Remove the rubber cover on the battery to reveal the battery connector socket. Lining up connectors (red to red and black to black), push the power lead into the battery socket until it clicks into place.

Note: Always fully push down the connector, to avoid an intermittent connection.

Remember to fasten the strap securely to prevent the battery from shifting during operation.

HARNESSES

ADJUSTING

1. Unclip the waist and chest straps.
2. Loosen the shoulder straps and waist belt.
3. Put on the unit by sliding your arms through the shoulder straps; first, secure and tighten the chest strap, then fasten the waist strap.
4. Tighten the shoulder straps.
5. Adjust the chest strap and waist strap position until comfortable so the weight is proportioned evenly.



Clip in the clasp on the chest strap



Pull the chest strap tight



Optional waist strap for comfort



Optional waist strap for comfort

HAND CONTROLLER

CONNECTING

1. Connect the hand controller to the side of the machine by lining up the pins with those in the socket. Once aligned, tighten the retaining clip to ensure the connection is secure.
2. Using the ON/OFF (O/I) switch, switch the machine ON (I) and the screen will illuminate.
3. Always remove the handheld controller when the machine is not in use.



IMPORTANT: when connecting the handheld controller, always go in flush to the connector, NEVER try to connect at an angle as this can damage the pins and you may cross thread the housing thread.

Always keep the plug and socket free from any fluid. If you get any gum remover solution on the pins, it may dullen the pins and stop them making contact. If you notice this, please clean the contact carefully to remove any residue.

HANDHELD CONTROLLER

Pump dial, which controls the rate of solution out of the lance.

This DOES NOT control the heat of the machine. It controls how fast the detergent is pumped through the heater and out of the machine.

**Higher = colder
Lower = hotter
Between 2 and 3 = gum setting**



LCD Panel indicates your battery level. (For a true reading, if you put the machine in 'priming' mode, this will give you the most accurate battery level). *See the Priming section for more information*

Power button, which switches the machine on and off.

SOLUTION

LOADING THE SOLUTION

1. While the power is off, place the machine on a level surface. Remove the machine lid and place the pre-mixed Ecogum solution into the designated compartment.
2. To remove the lid, press in the buttons on the side and lift the lid up, revealing the inside of the machine.
3. Unscrew the cap and insert fluid pipe and tighten breather cap (do not overtighten).



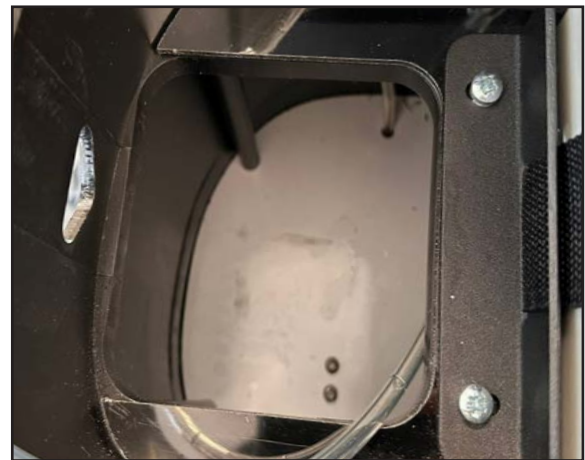
Buttons to open the lid on both sides of the body



Bottles of gum remover solution



Brass coupler and fluid pipe which go inside the gum remover solution



Cut out in the machine for the solution

SOLUTION INDICATOR



If the indicator is solid red, this means that the pump is working as usual.

When the light on the side of the machine starts flashing red, this indicates that the detergent needs replacing.

GUM REMOVAL

SETUP

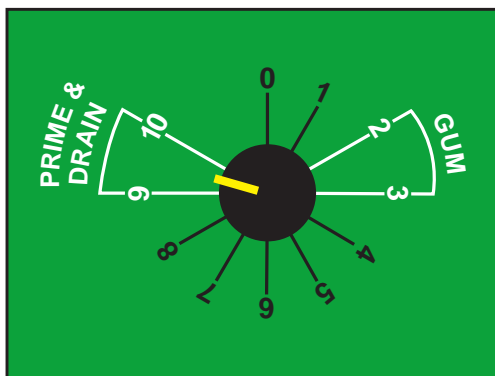
1. It is recommended to wear gloves and safety goggles when operating the gum remover.
2. Remove the lid using buttons on either side of body.
3. Place fully charged battery into cradle on right hand side.
4. Secure with clasp/strap (tighten if needed).
5. Remove rubber cover on top of the battery.
6. Plug power lead into the battery and make sure it's plugged in at the other end.
7. Insert bottle of Gum Remover Solution and remove bottle cap.
8. Insert fluid pipe and tighten breather cap (do not overtighten).
9. Replace lid.
10. Screw brush onto the end of the lance.
11. Locate the handheld controller.
12. Ensure the on/off button is set to OFF (O) before connecting.
13. Connect to the machine using the connector at the base of the machine.
14. Secure the handheld controller to the harness using the carabiner.

PRIME

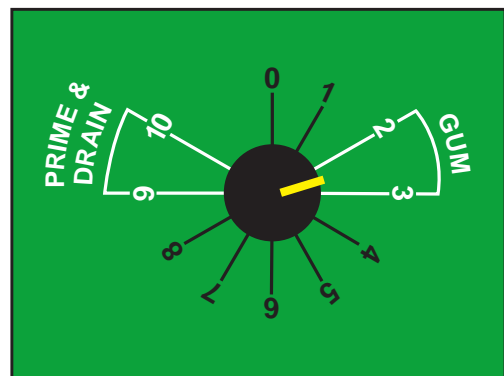
1. On the handheld controller, turn the switch ON (I) to turn on the machine. You will see the LCD panel illuminate to signify that is in on.
2. Turn the pump dial to between 9 and 10 which will prime the machine's fluid lines.
3. Wait until fluid starts to exit the end of the lance.
4. **Important: When fluid is visible, turn the pump dial down to between 2 and 3.**
If you use a higher number, gum removal performance will be reduced.
5. Locate the light at the top of the lance.
6. When this light turns red, the heater is in operation. Wait around 20 seconds when the light appears and you can remove gum.
7. Note: The LCD display on the control panel will give you a guide of battery %. When the heater is in operation, it will lower the % as it's drawing a current, especially if you just turn it on to check, as this causes a spike as the heater kicks in. To get an accurate read, turn your dial to 10 and this will cut off the heater and you will see the % increase to an accurate level.



Heater
Light



Prime Setting



Gum Removal Setting

GUM REMOVAL

REMOVING GUM

1. Place the end of the lance on top of the piece of gum.
2. Wait a couple of seconds for the Gum Remover Solution to soak into the gum.
3. When you feel/see the gum start to break down, move the brush around to agitate and dissolve the gum.
4. Leave the remnants to dry or sweep away using a brush.
5. Repeat this process if needed to remove all traces of gum.



IMPORTANT: Always allow a few seconds for the gum remover solution to soak into the gum before agitating.

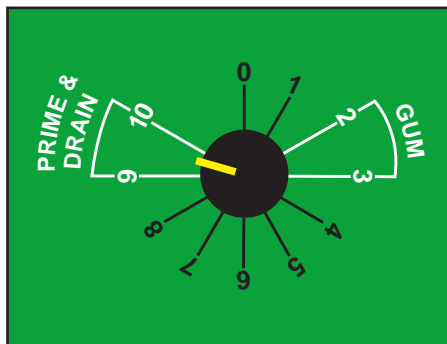
Agitating too early will slow down the gum removal process and will be more effort for the operator.

CLOSING DOWN

1. Open the lid of the machine.
2. Remove the fluid pipe from the detergent bottle.
3. **IMPORTANT: If the gum remover isn't going to be used for 2+ days, it is highly recommended to drain the lines of the machine. If not drained, there is a risk of a blockage.**
4. Drain the machine by turning the switch ON (I) and turning the fluid dial to between 9 and 10.
5. If you have depleted your battery, you will need to connect a battery with charge to be able to drain the machine.
6. Disconnect the power lead and remove the battery for charging.
7. Screw original detergent cap onto the detergent bottle to prevent spillages.
8. Turn the switch OFF (O) on the control panel.



Fluid line removed



Drain Setting

CONSUMABLES

SERVICE PACK



Product Code	Product	Description
ERSED001	Electric Service Pack	Contains 4x 2L Gum Remover Solution, 2x Hard Brushes, and 1x Soft Brush
BRS0003	Brush- Hard, Stainless Steel	For all hard surfaces
BRS0005	Brush- Soft, Nylon	For soft, delicate or painted surfaces

ORDERING

If you'd like to order replacement consumables, please contact us directly: sales@ecoremovalsystems.com or call us on +44 (0)121 558 1550. For international orders, please contact your original point of purchase.

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**Scan me to contact
Eco Removal Systems**

TECHNICAL SPECIFICATION

Mains Chargers Input	V	110-240
	Hz	50-60
DC Input	CC/CV	38
Rated Power	WH	250
Battery Pack	V	33 nominal
	WH	344
Battery Pack Cycle 300 Times	%	≥ 90 of C rating
Run Time	Mins	≥ 80 Minutes
Hose Length	mm	1580
Lance Length	mm	1200
Noise Level	dB(A)	≤ 70
Weight	Kg	7.5
Temperature Output	°C	95 ± 2
Solution Capacity	Ltr	2
Operating Output Pressure	BAR	≤ 1
Maximum Ambient Temperature	°C	40 +
Ambient Humidity Range	%	10-90
Machine Dimensions (LxWxH)	mm	250x300x550
Pump Power	W	1.5-1.7
Pump Voltage	VDC	12
Pump Run Time	Hrs	1000
Flow Rate	SLPM	0.16 @ optimum use

CONTACT US



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