



# INSTRUCTION MANUAL

(Original Instructions)



Truck Weight 45kg  
Weight (Fully Loaded): 58kg



# CONTENTS

This manual contains the following sections:

1. Warranty Information.....	3
2. Safety.....	4
3. Batteries: Charging.....	5
4. Batteries: Installation.....	6
5. Control Panel.....	7
6. Operation.....	9
7. Engaging and Disengaging Wheels.....	10
8. Gum Removal.....	12
9. Consumables.....	14
10. Technical Specification.....	15
11. Contact Us.....	16

# 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.
- **not freewheeling the machine when being manually pushed; this will invalidate the warranty on the gearbox and motor.**

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 in the bin compartment area once the bins have been taken out.

## Servicing

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

# SAFETY

## IMPORTANT SAFETY INFORMATION

Do not use the Truck or its gum remover 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 Truck, 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.

Always apply the brakes on the castors 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

There are two separate chargers for each battery, which plug into standard outlets to charge. 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.

The Truck battery uses an alternative socket to charge, which is located on the side of the battery through a circular cutout. Simply plug the end of the charger into this connection to charge.



Gum Remover  
Battery Charger



Truck  
Battery Charger

On each charger, there is a small LED light. **RED** = charging. **GREEN** = fully charged. It takes approx. 3.5 hours to charge each battery.

**IMPORTANT:** Always make sure the battery is plugged into the charger fully before switching it on.

**NEVER** charge a battery that is still connected to the Ecogum Truck.

Always remove batteries 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 battery types, except these specific models.

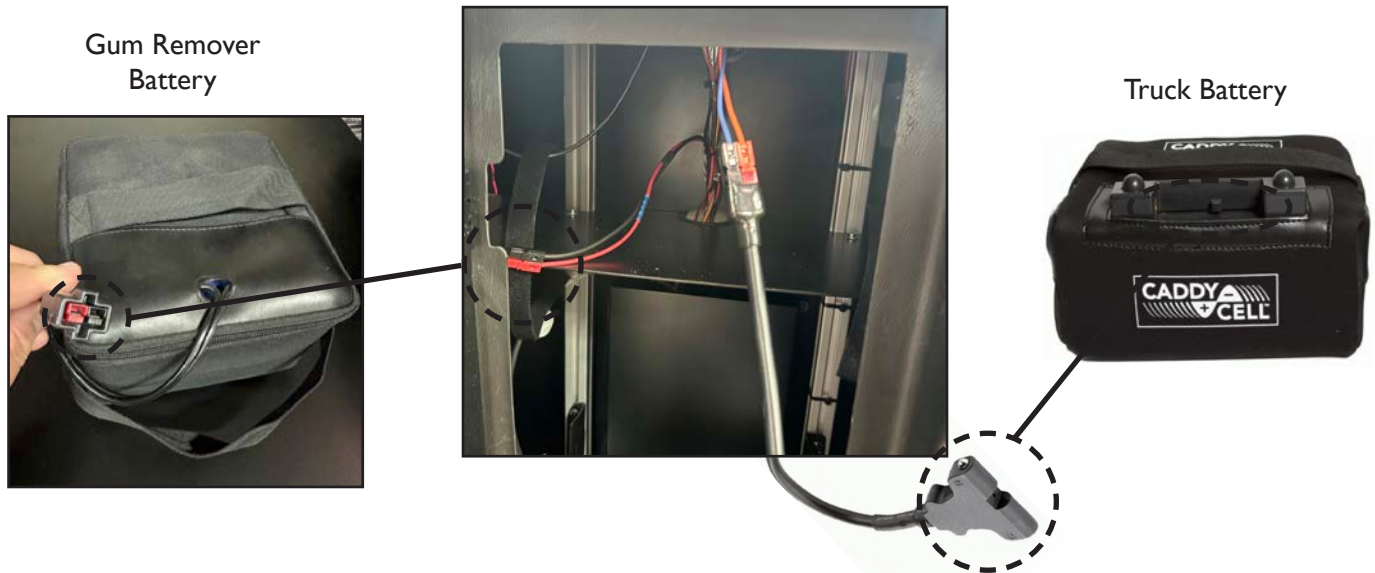
Ensure good ventilation is provided when chargers in operation.

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

# BATTERIES: INSTALLATION

## INSTALLATION

The Ecogum Truck has a dual-battery system, one for the Truck itself and a separate battery for the chewing gum remover, which can both be run at the same time. Both batteries fully interchangeable and are connected into the machine via the rear storage door of the machine.



Inside the door on the upper shelf, you will find two separate connections. One red/black (torberry) connector, which is for the gum remover battery and one T-bar connector which is for the Truck battery.

To connect the gum remover battery, simply line up the red and black connections and they will click into place. The T-bar has a metal ball on each end, which slot into the socket on the top of the battery.



Both Batteries Installed

Both batteries will fit onto the top shelf, side-by-side. Be careful of the wires when installing the batteries, or storing anything in this compartment.

The Truck battery also has a USB socket on the side, for charging a device such as a phone. Take care when storing valuables in this area.

# CONTROL PANEL

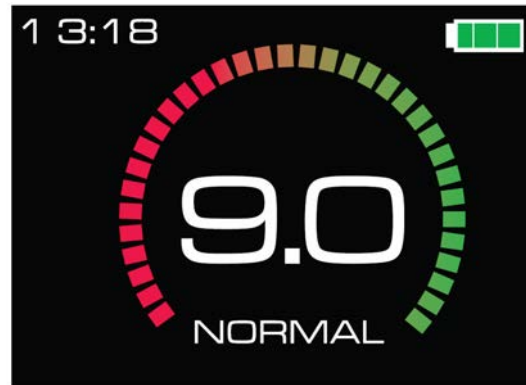
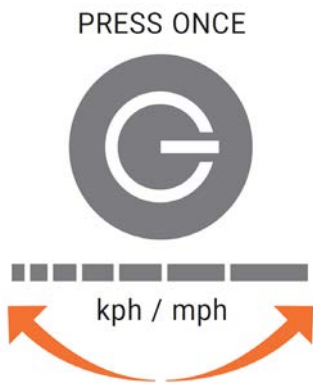
## POWER ON

1. Using the ON/OFF (O/I) switch, switch the machine ON (I) and the screen will illuminate.
2. The screen will initially flash 'Good Morning/Afternoon/Evening From ERS'.
3. You are now presented with a display showing "0.0" flashing.



## SET SPEED

4. Rotating the knob clockwise will change the speed setting upwards. While the speed is low, the brake is applied in greater force down to zero. There is less down force the higher the speed goes.
5. This is represented by Red for more braking and Green for less. Turn the speed to 0 and press the knob once, now adjust the speed. You can stop the machine at any speed and it will resume at that speed unless over 6.0.
6. IMPORTANT: Do not push the machine, always use power. As this is a brake machine, there are no clutches on the wheel, therefore pushing will rotate the entire drive train and this is undesirable.



## BATTERY INDICATOR

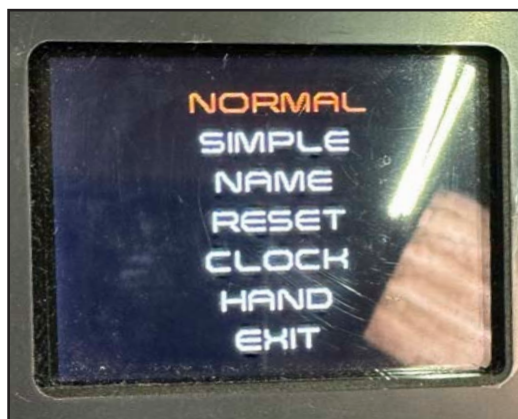
1. Your Truck comes with a battery indicator on the top right of the main screen.
2. This will give you an indication of how much power you have remaining in your battery.
3. Please note – in Simplicity/Competition Mode the battery indicator will not show.



# CONTROL PANEL

## PROGRAMMING MODE

1. With the power on and “0.0” flashing press and hold the on/off knob down for 10 seconds until “Program” is displayed.
2. By rotating the control knob, you will scroll between “Normal”, “Simple”, “Name”, “Reset”, “Clock”, “Hand” and “Exit” Functions.



## SETTINGS



**NAME:** Here you can add a personalised greeting to your machine. You can enter your name or company name in two rows of 8 letters or digits. The relevant digit will flash when it is available for change, pressing once moves you on one step. There is also the option to choose a blank if you wish to centre. To save, hold down for 5 seconds.

NORMAL

**SIMPLE/NORMAL:** This facility enables you to select a simple interface, leaving only the speed counter. Please note: Simple mode will remove the battery indicator from the main screen. Select Simple and hold for 3 seconds to save. You can revert to normal mode by going through the procedure again and selecting “Normal”.

-- : --

**CLOCK:** Select clock and the clock numerals will appear. Rotate the control knob to alter hours and minutes, pressing the knob down to save.

LH / RH

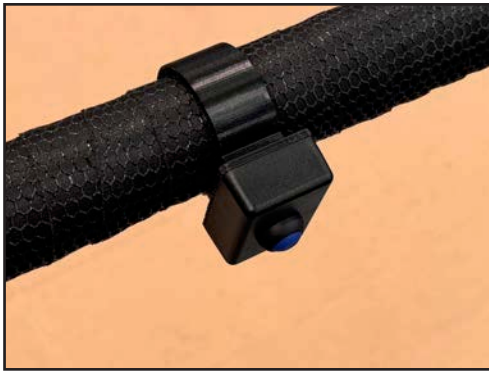
**HAND:** If you are left handed you will want to select LH, this will reverse how the rotary control knob works so that faster is anticlockwise and slower is clockwise. Press and hold to save the LH or RH option.

EXIT

**EXIT:** This will take you back to the main screen.

# OPERATION

## MOVING



Once you have set your speed, you are able to use the button on the handle of the Truck, to move. When you press the button, the motor will activate and the Truck will move. You can adjust the speed of the Truck whilst you are moving by turning the knob on the control panel.

When you release the button, the machine will engage the braking system. For more information on the braking system, please see below.

**IMPORTANT:** Always be aware of your surroundings and do visual checks before moving and when operating this machine. If stopping on a slope, you may need to engage the brakes on the castors to come to a complete stop.

## VISIBILITY

The Truck has several features which activate once the button is pressed and the Truck is moving.

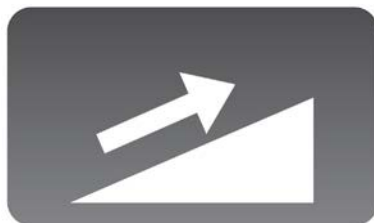
1. There are three LED light bars situated on the front and both sides of the Truck, which illuminate when the Truck is in operation.
2. There is a flashing light on the top of the Truck which flashes when the Truck is in operation.
3. There is a siren which beeps when the Truck is in operation.

These features only activate when the Truck is moving, not when powered on and not moving, or when the gum remover is in operation.



## BRAKING

The Truck has an in-built braking system which is mentioned in the SET SPEED section of this manual. This braking system allows the Truck to be able move up and down gradients or hills without drastically affecting speed.



**DOWNHILL:** When moving downhill, the braking system will be actively pushing the speed back towards zero, allowing the operator full control over the machine when going down gradients.

**UPHILL:** The Truck has super grip tyres, however if you ramp up the speed quickly, you may be able to spin the wheels. When moving up hills, always increase the speed gradually to gain maximum grip.



Whilst the Truck has a braking system, if you want a hard brake where the Truck will not move, it is recommended to always use the brakes on the front castors. This is important if stopping on a gradient.

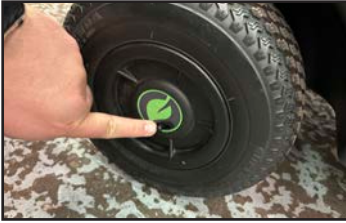
**IMPORTANT:** The castor brakes should always be engaged when parking or storing the machine away.

# OPERATION

## ENGAGING & DISENGAGING WHEELS



**WARNING:** If you need to operate the Truck without using the motor (for example if your battery has depleted), you must **ALWAYS** disengage the rear wheels which will put it into freewheel mode.



Button on outside of wheel

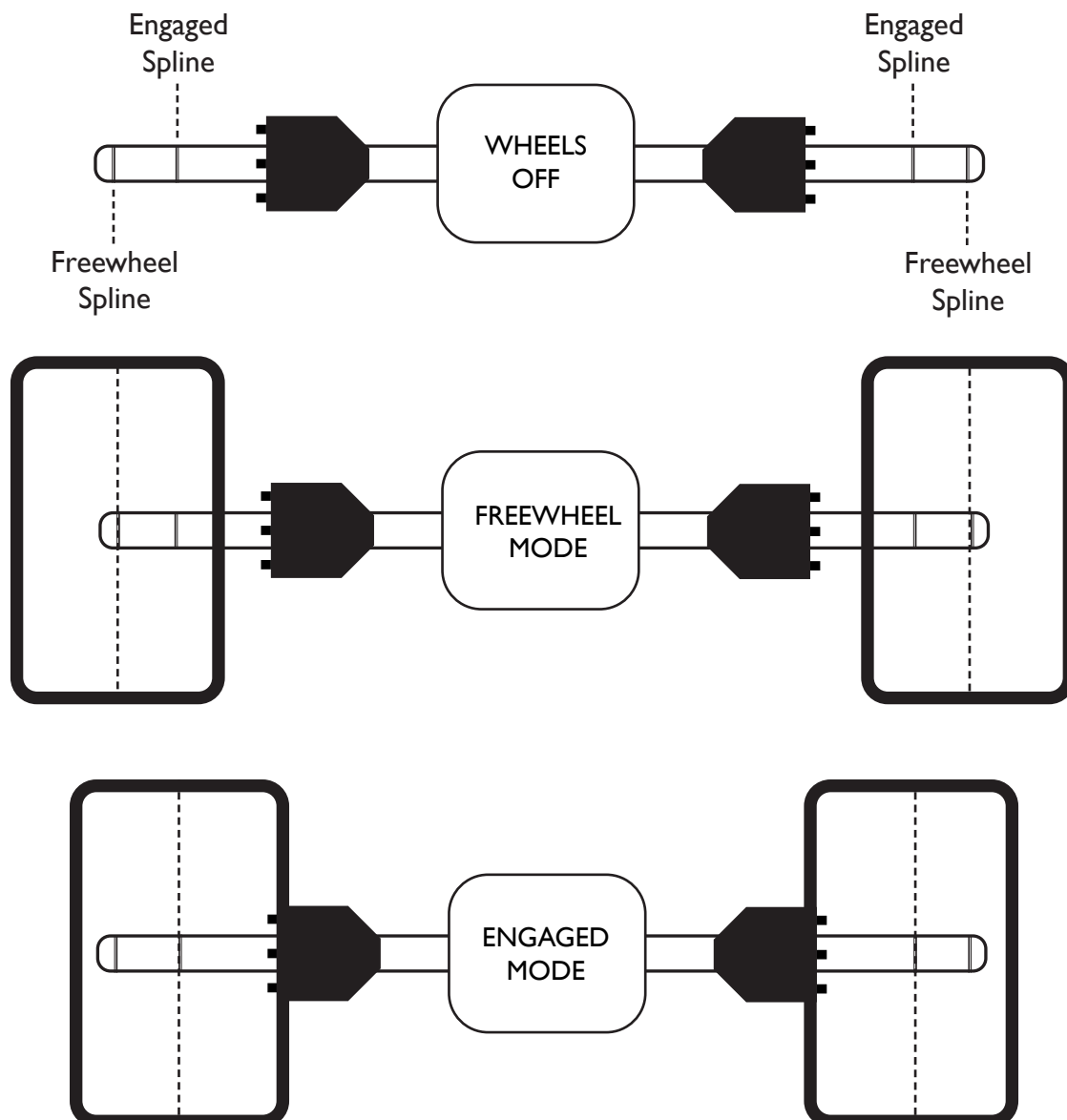
This means when being pushed, it won't be engaged into your motor and gearing system, which can cause damage to the gearbox and motor if engaged and manually pushed around.

To engage or disengage the wheels of the Truck, the wheel of the machine will need to be raised off the ground. The machine's weight should be supported during this process and the bins and batteries removed to reduce the weight if needed.



Spines on the axle

When the wheel has been raised off the ground, the button on the side of the wheel needs to be slid across, whilst simultaneously pushing the wheel in (to engage) or pull the wheel out (to disengage). When in freewheel mode, you'll be able to spin the wheels freely. If engaged you will feel resistance when trying to spin the wheel.

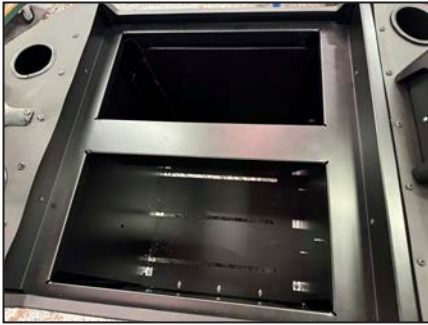


# OPERATION

## MAINTENANCE

For general maintenance of the axle and wheels, occasionally take the wheels off and remove any debris from the axle such as straw or string. Before you put the wheel back on wipe the axle with a greasy rag (tiny smear). Periodically clean the machine with a damp soapy cloth but never jet wash.

## EQUIPMENT



Bins Removed



Bins Installed



Included Equipment  
(Illustration Only)

As part of your Truck, you will receive the following equipment:

- Two x 90L Slim Jim bins and hinged lids.
- Ranger Max litter picker
- 12 Inch broom
- Long-handled dustpan and brush set

There is a storage compartment for both bins in the centre of the machine., allowing the bins to be removed and installed with ease. There are 2 compartments at the front of the machine for storing the gum remover lance and your litter equipment. If you require additional equipment, please contact us or your original point of purchase for more information.

# GUM REMOVAL

## SETUP

1. It is recommended to wear gloves and safety goggles when operating the gum remover.
2. Open the rear door of the Truck and insert a fully charged battery.
3. Connect the battery using the red/black connector.
4. Secure with velcro strap (tighten if needed).
5. Insert bottle of 5L Gum Remover Solution into the lower shelf and remove bottle cap.
6. Insert fluid pipe and tighten breather cap (do not overtighten).
7. Secure with strap/clasp and tighten if required.
8. Close the rear door and lock using the door key. There are 2 locks, one at the top and one at the bottom of the door.
9. Screw brush onto the end of the lance.



Rear Door



Gum Remover Battery



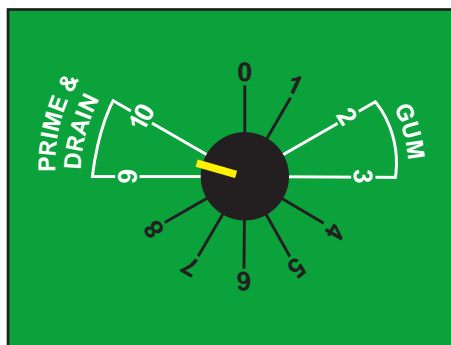
Detergent Connected

## PRIME

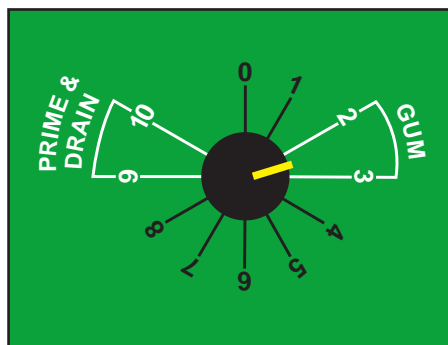
1. On the right-hand side of the control panel, turn the switch ON (I) to turn on the gum machine. You will see the LCD panel illuminate to signify that it is on.
2. Turn the pump dial to between 9 and 10 which will prime the machine's fluid lines.
3. Remove the lance from the storage compartment and 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.



Control Panel



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.

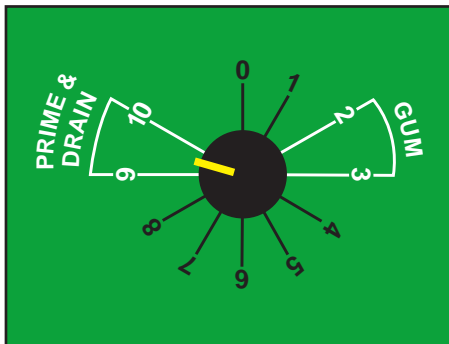


**IMPORTANT:** Always allow a few seconds for the gum remover solution to soak into the gum before agitating.

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

## CLOSING DOWN

1. Open the rear door 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.



Drain Setting

# CONSUMABLES

## MEGA PACK



Product Code	Product	Description
ERSEMP001	Ecogum Mega Service Pack	Contains 3 x 5L Gum Remover Solution, 3 x hard brushes and 2 x nylon brushes.
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](mailto:sales@ecoremovalsystems.com) or call us on +44 (0)121 558 1550. For international orders, please contact your original point of purchase.

**IMPORTANT:** 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.



**Scan me to contact  
Eco Removal Systems**

# TECHNICAL SPECIFICATION

Mains Chargers Input	V	100-240
	Hz	50-60
DC Input	CC/CV	37.8
Battery Pack (Gum Remover)	V	32.4 nominal
	WH	421.2
Battery Pack (Truck Battery)	V	13 nominal
	WH	192
Battery Pack Cycle 300 Times	%	≥ 90 of C rating
Run Time (Gum Remover)	Hrs	≥ 3.5
Run Time (Truck Battery)	Miles	≤ 7
Hose Length	mm	1580
Lance Length	mm	1200
Noise Level	dB(A)	≤ 70
Weight	Kg	58
Temperature Output	°C	95 ± 2
Solution Capacity	Ltr	5
Operating Output Pressure	BAR	≤ 1
Maximum Ambient Temperature	°C	40 +
Ambient Humidity Range	%	10-90
Machine Dimensions (LxWxH)	mm	1514x681x1041
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



@ecoremovalsystems



Eco Removal Systems



@ecoremovalsystems



sales@ecoremovalsystems.com



0121 558 1550



Unit 21, Corngreaves Trading Estate,  
Charlton Dr, Cradley Heath,  
B64 7BJ



www.ecoremovalsystems.com



+44(0)121 585 1550



sales@ecoremovalsystems.com



www.ecoremovalsystems.com