



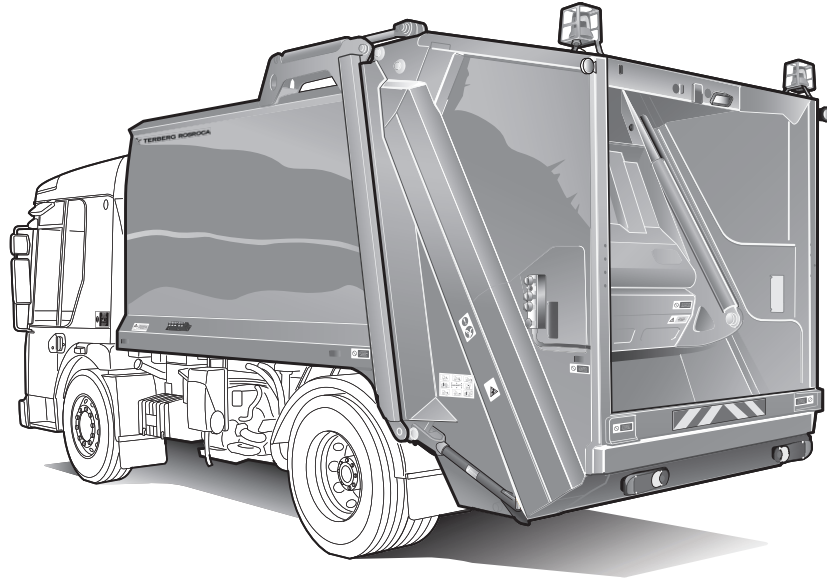
# **OLYMPUS ART**

**OPERATOR'S HANDBOOK**



This Operator's Handbook contains information about the Olympus ART Refuse Collection Vehicle.

The information in this handbook must be used in conjunction with the Operator's Handbooks for the chassis and any ancillary equipment such as lifting devices fitted to the refuse collection vehicle.



**IMPORTANT  
BEFORE OPERATING THE REFUSE COLLECTION VEHICLE.**

**It is most important that before operating the refuse collection vehicle, all operators:**

- Have undertaken a recognised training course in the safe operation of the refuse collection vehicle.
- Read, understand and observe all the instructions stated in Chapter 2 "Safety precautions" of this Operator's Handbook.

This Operator's Handbook must always be kept in a safe place in the vehicle it was supplied with.

# FOREWORD

Ros Roca. (the Company) reserves the right to change the specification, design, material, procedures and dimensions of the vehicles described within this publication without prior notice at any time in the future, in accordance with the Company's policy of continuous product improvement.

Whilst the Company has made every effort to supply an accurate and comprehensive guide to the safe and economic running of the equipment and ensure complete accuracy of information in this manual, no liability for inaccuracies or the consequences thereof, including loss or damage to property, or injury to persons can be accepted by the Company.

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Publication Reference:  
OL1R-OH-GB01L-R1/September 2020.

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## About this Operator's Handbook

Ros Roca, welcome you as the owner/operator of a new Olympus ART Refuse Collection Vehicle.

The purchase of the Olympus ART vehicle represents a major investment on behalf of your organisation.

To protect this investment, it is of utmost importance that you read, understand and observe all the instructions in the appropriate sections of this publication and equivalent publications about machinery and ancillary equipment fitted to the vehicle relating to:

- Safety.
- Correct operation.
- Performance.
- Cleaning.
- Scheduled maintenance.

This Operator's Handbook and the accompanying Service Manual contain information about the Ros Roca, units fitted to the vehicle and are divided into sections appropriate to the configuration of the vehicle supplied, namely:

- Refuse collection body.
- Lifting device.
- Optional equipment (i.e. Footboards).

The Operator's Handbook and Service Manual contain all the relevant information and data necessary to operate the appropriate Olympus ART unit and carry out designated cleaning, maintenance and inspection procedures.

The information in this Operator's Handbook must be used in conjunction with the Operator's Handbooks for any other manufacturer's chassis, equipment or machines that form part of the vehicle.

### **Important:**

This Operator's Handbook must always be kept in a safe place in the vehicle it was supplied with.

Always consult the Supplementary Information Chapter of this Operator's Handbook which provides space for inclusion of additional information specific to a particular vehicle or late-breaking information.

Take time to become fully familiar with this vehicle by carefully reading all the publications supplied with the vehicle; the more you know about the vehicle, the greater will be your safety, comfort and economy when driving it.

It is important to read the equivalent publications about machinery and ancillary equipment fitted to the vehicle as such equipment may incorporate interlocks or similar devices which affect the operation or performance of the vehicle. Failure to do this could have a drastic effect on safety, vehicle life, operating costs and downtime.

Failure to observe the instructions, particularly those relating to scheduled maintenance, may affect the terms of our warranty.

If in doubt consult your Ros Roca, representative.

# FOREWORD

## AFTERMARKET SUPPORT

Ros Roca, recognises the importance of offering a strong Aftermarket support throughout the life of the vehicle and sees it very much as an extension of the initial vehicle offering.

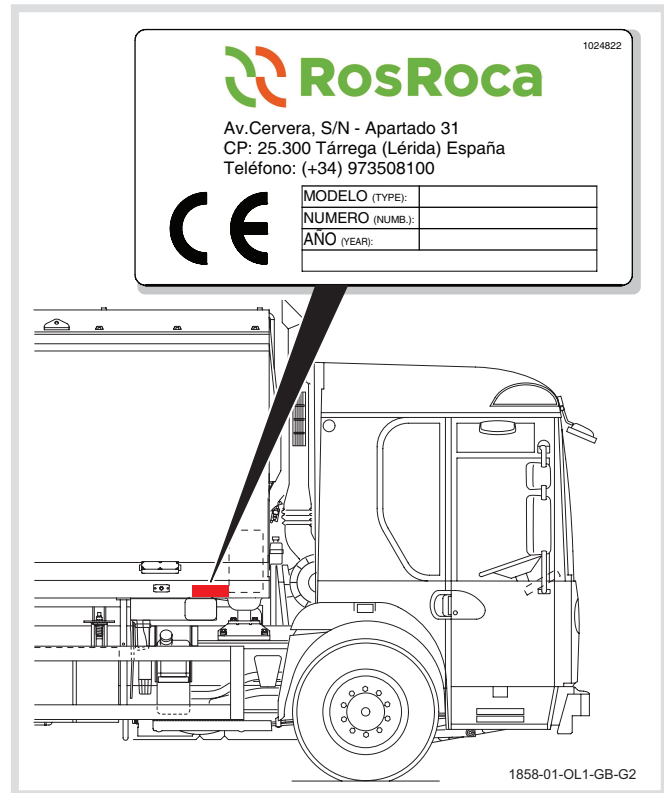
The Aftermarket business comprises a service network with regional centres and a parts business operated from its headquarters at Tàrrega.

Comprehensive training courses which are well presented and set the standard for the industry are also provided.

For further information about aftermarket operations please contact:

ROS ROCA  
AV, Cerrera, s.n.  
Tàrrega  
España  
Telephone: + (34) 973 50 81 00  
www.rosroca.com

## BODY IDENTIFICATION LABEL



The body identification label is attached to the front of the body on the lower right-hand corner.

The information on the label is shown below:

Body Type

Serial Number

Order Number

## OWNER'S INFORMATION

This section provides space for you, the owner, to record the appropriate serial numbers for the chassis, body and equipment fitted to the vehicle.

**Vehicle registration number:** .....

**Date of purchase:** .....

**Chassis model:** .....

**Chassis VIN:** .....

Equipment (i.e. Body)	Manufacturer	Model	Serial number
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....
.....	.....	.....	.....

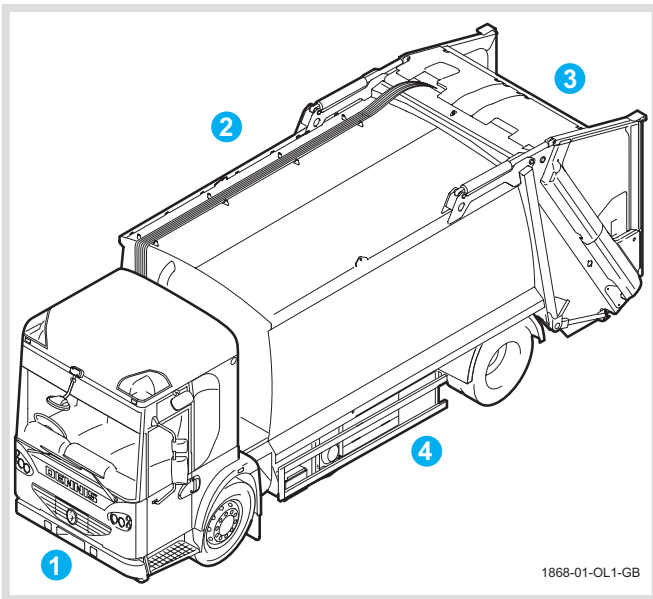
# FOREWORD

## DIMENSIONS AND SPECIFICATIONS

Unless otherwise stated, all dimensions are in mm and represent the unladen condition. All specifications are subject to manufacturers' tolerances. All weights are in kg and include oil and water. Additional equipment may alter dimensions and weights quoted.

## CONVENTIONS – RIGHT-HAND AND LEFT-HAND SIDE OF THE VEHICLE

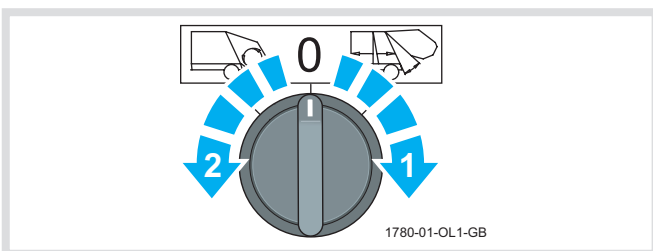
Where reference is made in this Operator's Handbook to the right-hand and left-hand side of the vehicle, this is relative to a person sitting in the driver's seat.



1. Front.
2. Right.
3. Back.
4. Left.

## CLOCKWISE AND COUNTER-CLOCKWISE

Where reference is made in this Operator's Handbook to turning an item, for example a control knob, 'Clockwise' or 'Counter-clockwise' this relates to the direction of rotation when seen from the front face of the item.



1. Clockwise.
2. Counter-clockwise.

## RELATED PUBLICATIONS

The following publications are available in support of the Olympus ART Refuse Collection Vehicle:

- Service Manual.

They are available from your Olympus ART supplier.

## SAFETY



**THIS SYMBOL INDICATES INSTRUCTIONS THAT MAY HAVE SERIOUS RISK TO HEALTH AND SAFETY AND / OR VEHICLE DAMAGE. THESE INSTRUCTIONS MUST BE ADHERED TO.**

Warnings, Cautions and Notes are displayed as follows:



**WARNING:**  
**PROCEDURES WHICH MUST BE FOLLOWED PRECISELY TO AVOID POSSIBILITY OF PERSONAL INJURY OR DEATH.**



**Caution:**  
**Procedures which must be followed to avoid damage to components or malfunction.**



**Note:**  
Provides additional important information about a procedure or event that is not a **WARNING** or a **Caution**.



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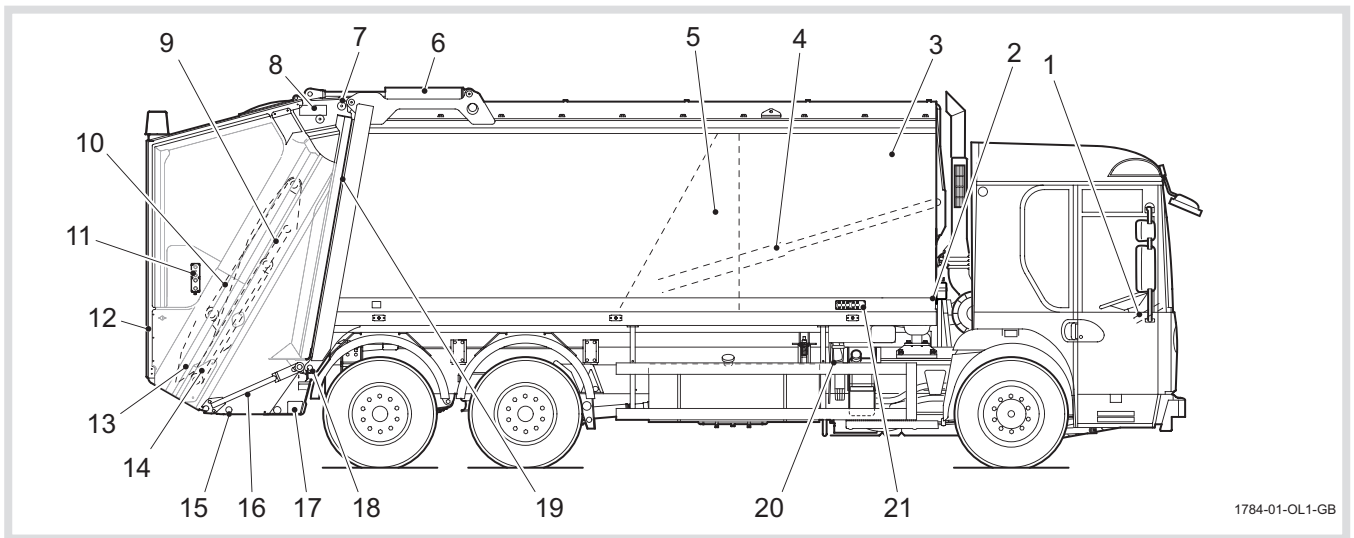
## 1 INTRODUCTION

### 1.1 LOCATIONS

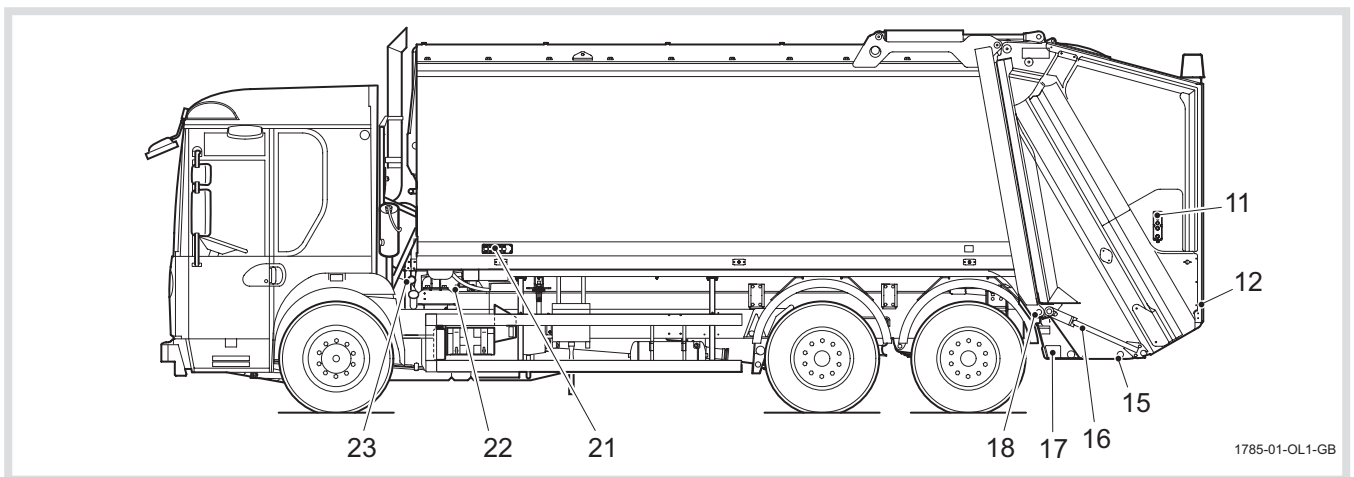
The location of major bodywork features for the Olympus ART series of refuse collection vehicles is shown in Figs. 1-1 (right-hand side of vehicle) and 1-2 (left-hand side of vehicle):

1. Cab control panel (see "4.2 Cab control panel" on page 4-4).
2. Body hydraulic oil tank and control valve (inside front of body).
3. Body.
4. Ejection cylinder.
5. Ejection plate.
6. Tailgate raise/lower cylinder.
7. Tailgate.
8. Compaction mechanism hydraulic control valve.
9. Carriage plate.
10. Pack plate cylinder.
11. Compaction mechanism control panel (see "4.4 Compaction mechanism control panel" on page 4-9).
12. Rave rail (hand loading).
13. Packer plate.
14. Carriage plate cylinder (behind covers).
15. Tailgate drain.
16. Tailgate prop (see "5.5 Propping/unpropping the tailgate" on page 5-12).
17. Leachate tank\*.
18. Tailgate/body lock.
19. Body/Tailgate seal.
20. Body drain.
21. Discharge control panel\* (see "4.3 Discharge control panel" on page 4-6).
22. Hand pump\* (see Service Manual).
23. Hydraulic filler point.

\* = Optional features.



**Fig. 1-1 Olympus ART refuse collection bodywork features (right-hand side of vehicle)**



**Fig. 1-2 Olympus ART refuse collection bodywork features (left-hand side of vehicle)**

# INTRODUCTION

## 1.2 REFUSE COLLECTION VEHICLE

A Refuse Collection Vehicle (RCV) is used to collect and transport domestic and industrial waste. The waste is compacted in the collection body by an hydraulically operated mechanism to achieve maximum payload before transfer to a refuse tip.

The Olympus ART refuse collection bodywork is generally mounted on vehicle manufacturers' chassis specified for refuse collection application.

The variant on body size governs the chassis length, the size of body dictating body payload. This Operator's Handbook is common to all body sizes.

## 1.3 LIFTING DEVICES

Your vehicle may be fitted with a lifting device to allow the discharging of refuse containers. Operation, maintenance and workshop instructions and data will be supplied with the lifting device and must be read in conjunction with these instructions.

Lifting devices fitted to this machine must be installed to Ros Roca S.A. approved specification.

## 1.4 CONTROL SYSTEM OPERATION

This Olympus ART Refuse Collection vehicle is fitted with a simpler (Non-EN Compliant) control mechanism configuration. However, safety is paramount and wherever possible the same functionality is maintained with simpler control mechanisms.

## 1.5 WARRANTY

This machine is supplied as designed by Ros Roca S.A. Any unauthorised modification or change to specification of hardware or controls is at the machine owner's own risk and may invalidate the warranty granted with this product. If in doubt please consult Ros Roca S.A.

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# SAFETY PRECAUTIONS

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## 2 SAFETY PRECAUTIONS

### 2.1 INTRODUCTION

This chapter gives guidelines for the safe operation of refuse collection vehicles.

The information in this chapter must be read in conjunction with the Safety Precautions stated in the manufacturer's instructions for any ancillary equipment fitted to the refuse collection bodywork.

It is everyone's responsibility to make sure that they and their colleagues work safely. The intention of these guidelines is to bring safety to every operative's attention. Read them very carefully and use them as a guide to good working practice at all times.

The guidelines contained in this manual are not definitive. There may be additional ways to make sure that operator organisations work safely and you must also follow any local rules and safe working practices that may apply.

### 2.2 SAFETY SYMBOL, WARNINGS, CAUTIONS AND NOTES

The following Safety Symbol is used throughout this manual to indicate information that is essential to Health and Safety.



The symbol applies to ALL information contained in this chapter.

**All Safety Information MUST be strictly adhered to.**

#### Warnings



**WARNINGS:  
A WARNING IS PRINTED IN THIS STYLE.**

**IT REFERS TO ANY OPERATION OR EVENT THAT CAN BE HAZARDOUS TO HEALTH OR LEAD TO INJURY IF NOT PERFORMED CORRECTLY.**

#### Cautions



**Cautions:  
A Caution is printed in this style.**

**It refers to any operation or event that can cause damage to equipment if not performed correctly.**

#### Notes



**A Note is printed in this style. It refers to essential information about any operation or event that is not a WARNING or a Caution.**

# SAFETY PRECAUTIONS

## 2.3 PERSONAL HYGIENE

Personal hygiene is important at all times, particularly for those working in the waste disposal environment where rats can breed and spread diseases such as LEPTOSPIROSIS.

Leptospirosis, or Weil's disease, is a form of jaundice with early stages similar to influenza. The infection sometimes enters the body through breaks in the skin, so thorough first aid treatment of all wounds is important.

Leptospirosis is carried in the urine of rats. If you have the slightest suspicion that you are working in a contaminated environment follow these rules rigidly:

1. Wear protective clothing at all times.
2. Do not allow the inside of protective clothing to become soiled.
3. After removing protective clothing wash it thoroughly and allow it to dry.
4. Wash hands and forearms thoroughly after working and especially before eating and drinking.
5. Wash every scratch, graze or cut of the skin, treat it with antiseptic, and cover it with a sterile dressing, e.g. plaster. This applies to ALL wounds; not just those suffered at work.
6. If the vehicle's First-Aid kit requires replenishing report it to your supervisor.
7. With any injury that is more than a scratch or slight cut, consult your doctor and mention the type of work you do.
8. Do not rub your mouth, nose or eyes when working.
9. At all visits to your doctor, mention the type of work you do and the environment you work under.
10. Apply barrier creams before each work period.



Preparations containing lanolin replace the natural skin oils which can be removed when washing.

11. Do not wash skin with fuels, thinners or solvents.
12. Obtain medical advice if skin disorders develop.

## 2.4 PROTECTIVE CLOTHING

While operating the refuse collection vehicle, wear protective clothing complying with Health and Safety Legislation and Standards applicable to the country in which the vehicle is being used, including:

1. A boiler suit, or a two piece protective overall, not too loosely fitting and of a distinctive colour.
2. Protective boots or shoes with steel toe caps and insoles.
3. A hard protective hat.
4. Protective gloves.
5. Protective spectacles.
6. Goggles and particle mask if working in dusty conditions.
7. Reflective armbands or jacket should be worn when working on the road or in any other situation where there may be a hazard from moving vehicles or manually operated machinery.

## 2.5 GENERAL

1. The operative of a refuse collection vehicle has a duty to ensure that the operatives understand the principles and procedures of operation and all relevant safety instructions.
2. It is forbidden to use a refuse collection vehicle if any of its safety devices is modified or not operating to specification.
3. It is essential to lock the vehicle doors, remove the keys and place warning notices when working on the vehicle or its mechanisms.
4. Operatives must never ride on any part of the vehicle except in the cab, or on the footboards, where fitted.
5. The refuse collection vehicle, its chassis, bodywork, refuse compaction mechanism and any ancillary equipment, such as lifting devices, must be correctly operated and maintained in accordance with the manufacturers' instructions at all times.
6. Never store refuse in the body - it is only to be used for collection and transportation.
7. When pressure washing the refuse collection vehicle, its chassis, bodywork, refuse compaction mechanism and any ancillary equipment, such as lifting devices, do not allow the jet nozzle to approach closer than 1 metre.
8. Never operate the refuse collection vehicle and any supplementary devices, such as lifting devices, unless:
  - You are a trained operative.
  - It is in a well-maintained condition with all systems operational and their safety features operating to specification.
9. The refuse collection vehicle must not be operated if any of its protective covers are missing or damaged. Such covers are essential to the safety of operating personnel as they protect them from potential hazards from moving components (i.e. cylinders) and ejection of refuse.
10. Do not exceed the plated axle and/or gross vehicle weights for the chassis. All chassis have axle and gross vehicle weight information on a plate situated in the cab. It is important that gross vehicle weights are monitored carefully in the first few weeks of operation. If for any reason maximum plated weights are exceeded on a regular basis please contact Ros Roca S.A., Service Department or local agent for advice.



**WARNING:**  
**DO NOT DIRECT PRESSURE WASHER AT A PERSON. HIGH-PRESSURE WATER JETS CAN CAUSE INJURY.**



**Caution:**  
**High-pressure water jets can cause severe damage to electrical equipment.**

# SAFETY PRECAUTIONS

## 2.6 BEFORE LEAVING THE DEPOT

Before leaving the depot check and ensure that:

1. There is no refuse, paper or flammable materials near the engine or exhaust. These could cause a fire when the engine is started. If necessary, tilt the cab (See Chassis Manufacturer's Operator's Handbook) to make a thorough inspection.
2. The chassis and cab systems are working to specification: lights, windscreen wipers, tyre condition and pressures, etc. See the relevant chapter(s) of the Chassis Operator's Manual.
3. All ancillary equipment is working to specification. See the relevant chapter(s) of the Equipment Manufacturer's Operator's Manual.
4. All safety circuits, interlocks and operational features are working to specification.
5. All marking plates are clean and clearly visible.
6. All warning instruction labels are clean and legible.
7. All audible and visual alarms are working to specification.
8. The following fluid levels are correct:
  - **Chassis** - See Chassis Operator's Handbook.
  - **Bodywork** - Hydraulic system oil level (see Service Manual).
9. The vehicle crew is trained in the safe operation of the machine and has suitable protective clothing.
10. The number of crew does not exceed the seating capacity of the vehicle cab.
11. The tailgate is properly locked to the body.
12. The 'Body master' switch is in the 'Off' position (see "4.2.2 'Body master' switch" on page 4-5).
13. The chassis, cab, bodywork and ancillary units, when fitted, and their systems are free from accumulated mud or debris from landfill, which could impair or damage the systems and render the vehicle unsafe and/or inoperable.

## 2.7 TRAVELLING TO COLLECTION POINT

While travelling to the collection point:

1. All crew members must be seated and wearing seat belts.
2. The tailgate must be properly locked to the body.
3. The 'Body master' switch must be in the 'Off' position (see "4.2.2 'Body master' switch" on page 4-5).
4. Personal items (i.e. coats, lunch boxes, etc.) must be securely stowed in the cab - use coat hooks if provided.
5. Bottles, cans, etc. **MUST NOT BE** left on the cab floor as they can roll under the brake or clutch pedals causing an obstruction that can be dangerous.
6. Any lifting devices must be in the stowed or travel position before moving the vehicle (refer to Lifting Device Operator's Handbook).
7. When travelling over rough ground the lifting device may be raised to avoid grounding. The rear lights **MUST NOT** be obstructed by leaving the lifting device in a mid-position.

## 2.8 COLLECTING REFUSE

While collecting refuse:

1. All personnel must be familiar with the position, use and function of the 'Emergency stop' push-buttons.
2. Always keep the cab floor, access ladder and soles of footwear clean and free from debris.
3. Check that the road or pavement is clear of oncoming/overtaking vehicles, pedestrians or other obstructions before opening the cab door and stepping out. The crew must always exit from the kerb side of the vehicle.
4. Take particular care when stepping out from the rear of the vehicle to cross the road.
5. Use the flashing warning beacons to warn people in the vicinity of your presence.
6. During continual stop/start operations be especially aware of other road users.
7. Be careful when loading glass, cover it with refuse before operating the compaction mechanism.
8. Ensure the packer blade covers all refuse before moving the vehicle.
9. Do NOT drive the vehicle with the cab door open.
10. Do NOT leave the vehicle unattended.
11. Do NOT under any circumstances leave the cab without applying the handbrake.
12. Do NOT reverse the vehicle without supervision.
13. Do NOT allow yourself to be distracted whilst operating the equipment.
14. Do NOT allow members of the public to approach the vehicle whilst the machine is in operation.
15. Do NOT remove objects from nor reach into the tailgate at any time during the compaction cycle.
16. Do NOT hold large objects whilst the packer blade chops them.
17. Do NOT overload the tailgate before packing.
18. Do NOT enter any part of the bodywork.
19. Do NOT adjust any hydraulic pressure or sequence valves - this may render the machine unsafe.
20. Do NOT load pressure containers.
21. Do NOT load television sets.
22. Do NOT load refrigerators containing CFC gases.
23. Do NOT load hot ashes or burning debris.



**WARNING:  
IN CASE OF FIRE VACATE THE VEHICLE  
AND CALL THE EMERGENCY FIRE  
SERVICE.**

24. Do NOT load automotive wet charged batteries.

25. Do NOT load known hazardous waste.

While using a lifting device to collect refuse:

26. Ensure that the waste container is undamaged and that the lid (if fitted) is closed.
27. Ensure that the waste container is not over-filled. The lid must be fully closed and contents must not protrude from the waste container.
28. Position the waste container correctly before operating the equipment.
29. Personnel must keep clear of the rear of the vehicle whilst the lifting device is in operation.
30. The waste container may be stopped in any position by releasing the Lifting device raise button.
31. Any lifting device equipment must be in the stowed or travel position before moving the vehicle (refer to Lifting device Operator's Handbook).
32. Do NOT attempt to empty waste containers or skips that are incompatible with the lifting device fitted to the vehicle (refer to Lifting device Operator's Handbook).
33. Do NOT walk under or reach under raised waste containers.
34. Do NOT violently shake the waste container when depositing refuse. This may damage the waste container or the lifting device and could result in a hazardous situation. If the refuse is jammed in the waste container, it should be lowered to the ground and the obstruction removed.
35. NEVER assist the lifting device by hand. If the waste container is too heavy it should be lowered to the ground and the weight reduced.
36. Do NOT climb into waste containers or tailgate to re-arrange refuse.
37. Do NOT drive with waste containers suspended from the lifting device.

# SAFETY PRECAUTIONS

## 2.9 TRAVELLING TO DISCHARGE SITE

When travelling to the discharge site:

1. Always drive carefully, especially when the vehicle is fully loaded, as its handling and performance characteristics will have altered. The driver must take this change from unladen to laden condition into account.
2. The packer blade must cover the refuse.
3. The 'Body master' switch must be in the 'Off' position (see "4.2.2 'Body master' switch" on page 4-5).
4. Crew members **MUST** be seated and wearing seat belts.
5. The tailgate must be properly locked to the body.
6. Personal items (i.e. coats, lunch boxes, etc.) must be securely stowed in the cab - use coat hooks if provided.
7. Bottles, cans, etc. **MUST NOT BE** left on the cab floor as they can roll under the brake or clutch pedals causing an obstruction that can be dangerous.
8. Any lifting device equipment must be in the stowed or travel position before moving the vehicle (refer to Lifting Device Operator's Handbook). When travelling over rough ground the lifting device may be raised to avoid grounding. The rear lights **MUST NOT** be obstructed by leaving the lifting device in a mid-position.

## 2.10 AT DISCHARGE SITE

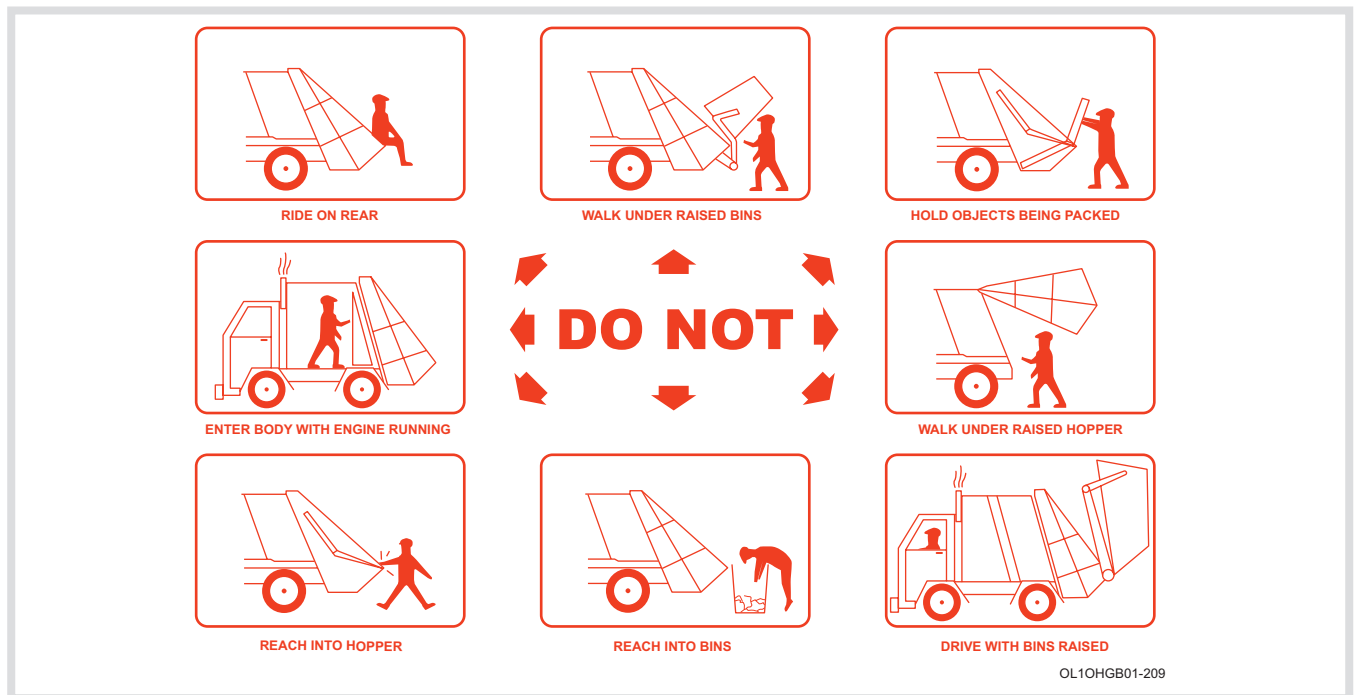
At the discharge site:

1. Switch on the warning beacons before commencing the discharge operation.
2. Always follow the instructions specific to that site.
3. Only essential crew members should leave the cab during the discharge operation - if allowed by the discharge site instructions.
4. Ensure that you are familiar with the physical size of the vehicle, in particular the height with the tailgate and lifting device, if fitted, raised.
5. Do **NOT** go to the back of the vehicle at the tip face.
6. Ensure that the ground/surface is level and firm before attempting to raise the tailgate - see Tip Face Operational Guidelines.
7. Ensure tailgate area is clear before raising/lowering the tailgate.
8. Do **NOT** walk under raised tailgate unless it is supported by its props.
9. Do **NOT** walk under a raised tailgate during the tailgate clear cycle.
10. Ensure tailgate area is clear before ejecting the load.

## 2.11 BEFORE LEAVING DISCHARGE SITE

Before leaving the discharge site ensure that:

1. There is no refuse, paper or flammable materials near the engine or exhaust. These could cause a fire when the engine is started. If necessary, tilt the cab (See Chassis Manufacturer's Operator's Handbook) to make a thorough inspection.
2. The tailgate seals are free from debris and undamaged.
3. The tailgate is down and properly locked.
4. The vehicle is free from damage to its chassis and bodywork.
5. The lights used for the safe operation of the vehicle on the public highway are still functioning correctly, clean and visible.
6. All bodywork placards (e.g. number plates, marker plates, and warning instructions to other road users) are clean and clearly visible.
7. The 'Body master' switch is in the 'Off' position (see "4.2.2 'Body master' switch" on page 4-5).
8. The vehicle is SAFE to continue.
9. The chassis, cab, bodywork and ancillary units, when fitted, and their systems are free from accumulated mud or debris from landfill, which could impair or damage the systems and render the vehicle unsafe and/or inoperable.



# SAFETY PRECAUTIONS

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## 3 HOW IT WORKS

### 3.1 BODY

Bodies are of varying capacity according to individual vehicle specification. Refuse is contained within the body during collection and transportation to the tip. The refuse is discharged from the body by an ejection plate (2) operated by the ejection cylinder.

### 3.2 TAILGATE

The tailgate (3) is pivoted at the top rear of the body and is raised and lowered by two hydraulic cylinders, the tailgate raise/lower cylinders. The tailgate consists of a hopper (6), into which refuse is loaded, and the compaction mechanism. The tailgate provides a mounting point for the lifting device mechanism when fitted to the vehicle.

#### 3.2.1 COMPACTION MECHANISM

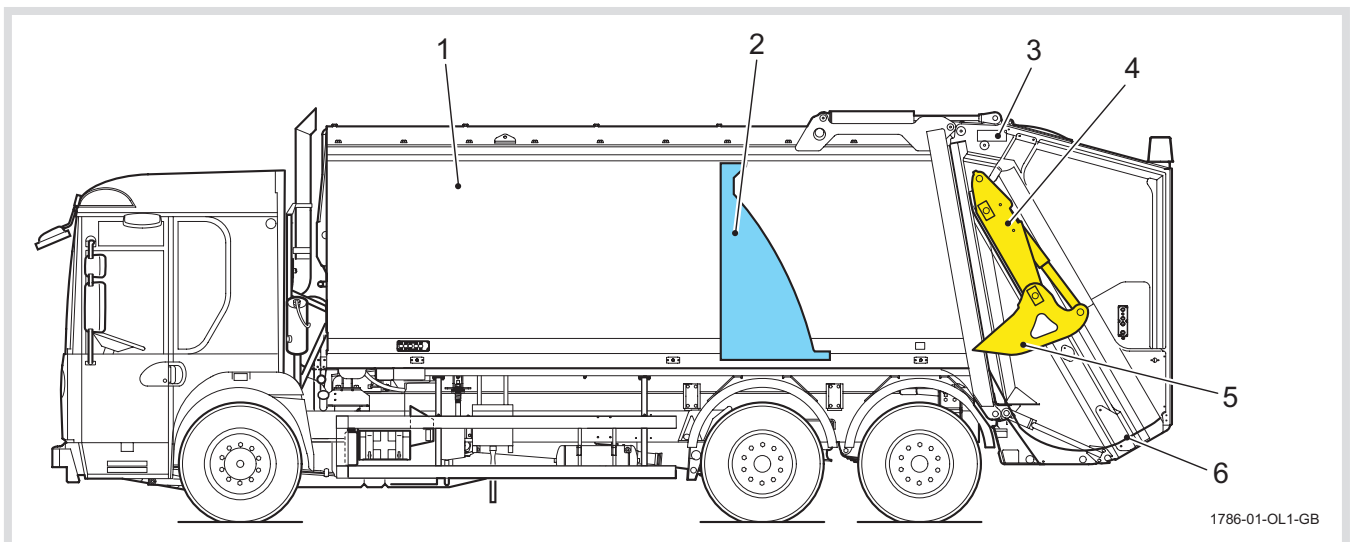
The compaction mechanism comprises two parts:

- The carriage plate (4)  
This travels in slideways and is operated by two hydraulic cylinders, the carriage plate cylinders.
- The packer plate (5)  
This is hinged on the carriage plate and is operated by two hydraulic cylinders, the packer plate cylinders.

The packer plate and carriage plate compact the refuse that has been emptied into the hopper against the ejection plate in the body.

As the load pushing against the ejection plate increases, the hydraulic system controls its forward movement in the body to give a uniformly compressed load.

When the tailgate is raised, the ejection plate cylinder is extended to push the refuse out of the body.



**Fig. 3-1 Major operating components**

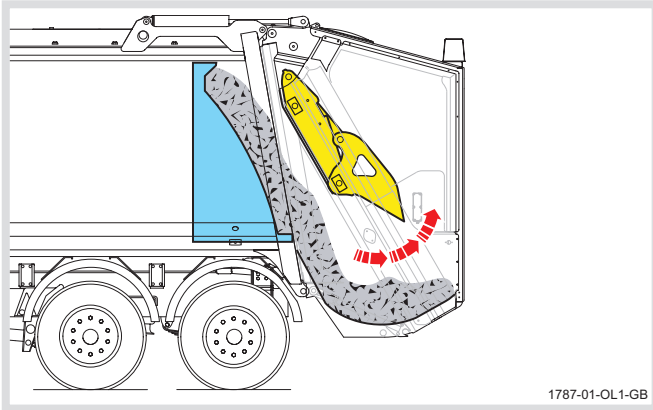
1. Body
2. Ejection plate
3. Tailgate
4. Carriage plate
5. Packer plate
6. Hopper

# HOW IT WORKS

## 3.2.2 OPERATING CYCLE

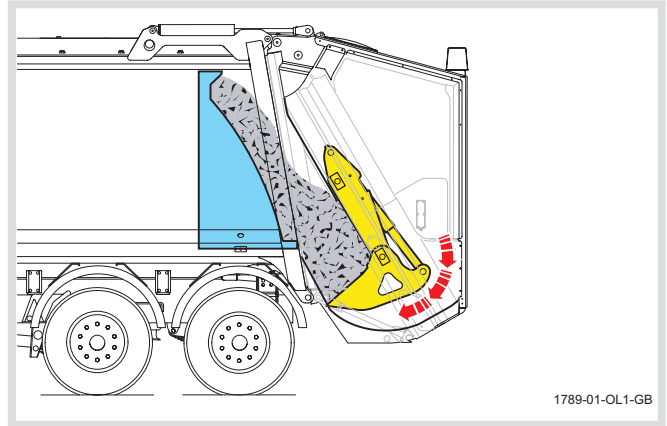
The compaction mechanism operating cycle is divided into four events:

1. Open packer plate.



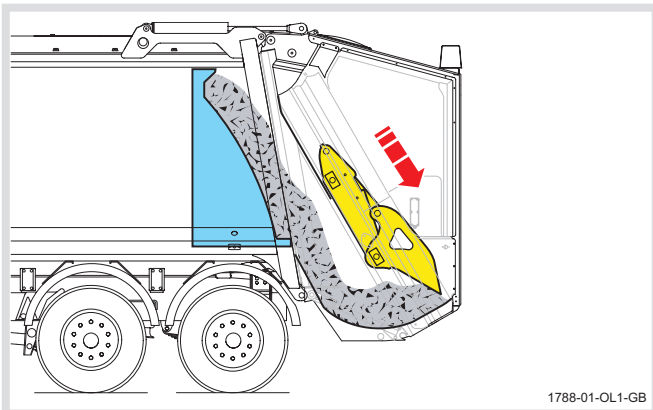
The packer plate opens.

3. Close packer plate.



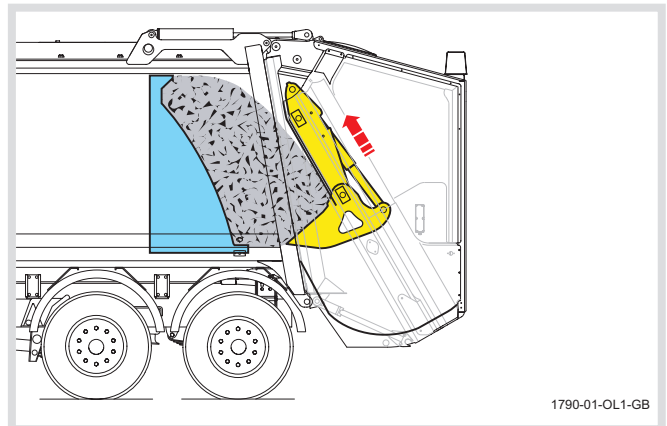
The packer plate encloses the refuse and sweeps it from the hopper.

2. Carriage plate down.



The carriage plate moves down into the hopper.

4. Carriage plate up.



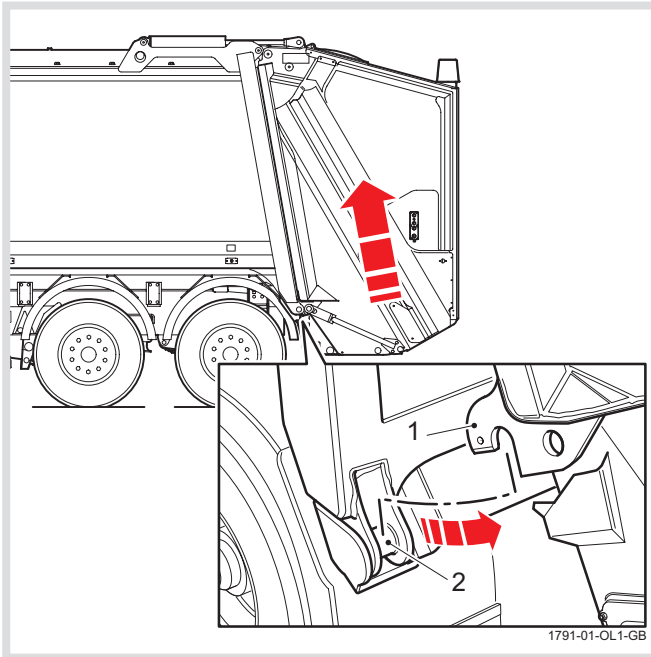
The packer plate and carriage plate compress the refuse in the body against the ejection plate. As more refuse is packed into the body, the ejection plate moves towards the front of the body.

## 3.2.3 DISCHARGING OPERATION

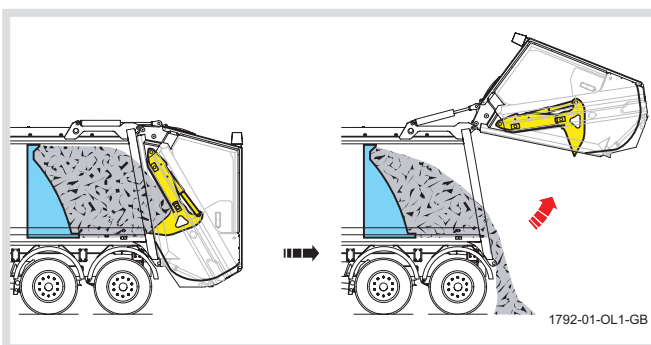
Discharging collected refuse from the body involves four operations:

### 1. Raising the tailgate.

The tailgate together with any lifting device (if fitted) is raised clear of the rear of the body. As the tailgate begins to raise, it first moves up the rear face of the body until a hook (1) mounted on each side of the tailgate has disengaged from a pin (2) mounted on each side of the body. At this point the tailgate is 'Out of locks'.

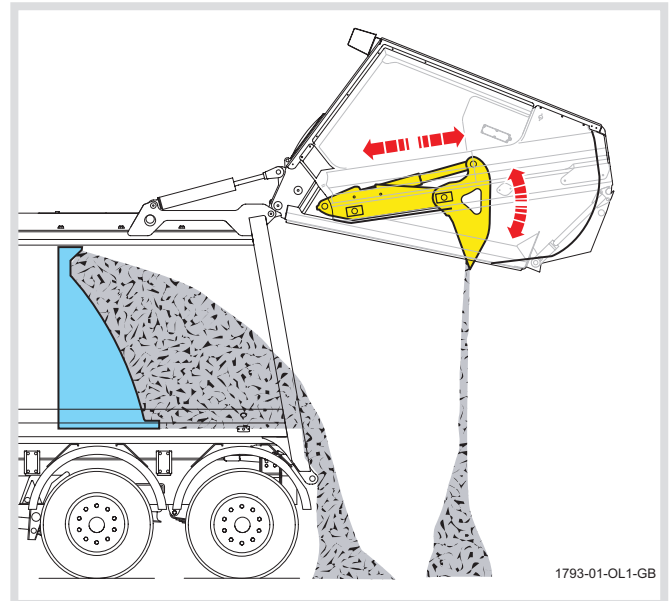


The tailgate then rotates about the tailgate pivots mounted in the roof of the body until it reaches its fully raised position.

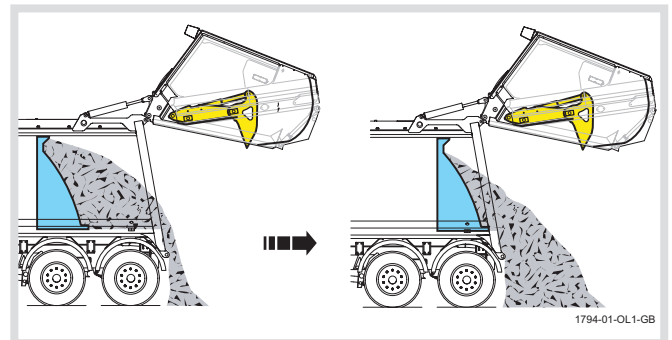


### 2. 'Tailgate clear' cycle.

The compaction mechanism is operated when the tailgate is at full height to clear any accumulation of refuse from the tailgate hopper.



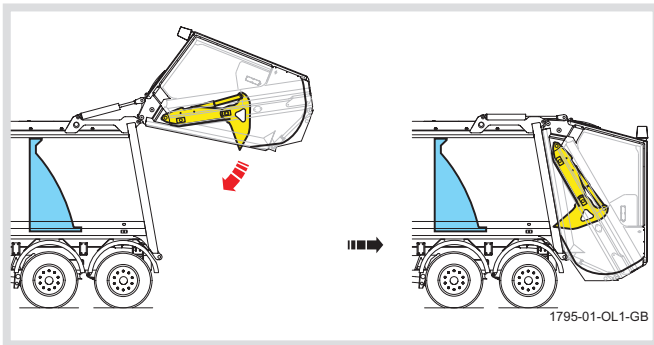
### 3. Discharging.



The ejection plate pushes the refuse out of the rear of the body.

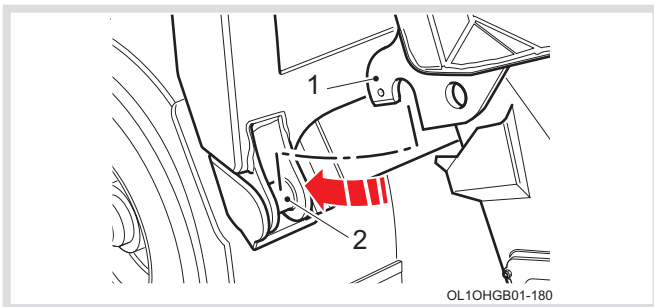
# HOW IT WORKS

## 4. Closing the tailgate.



The tailgate together with any lifting device (if fitted) is lowered onto the rear of the body, mechanically locking the tailgate to the body.

As the tailgate lowers, it rotates about the tailgate pivots mounted in the roof of the body until it makes contact with the rear face of the body and then slides down the body until a hook (1) mounted on each side of the tailgate engages a pin (2) mounted on each side of the body, locking the tailgate to the body.



## 3.3 HYDRAULIC SYSTEM

The compaction, tailgate lifting and ejection mechanisms are operated by an hydraulic system comprising a tank, pump, control valves and hydraulic cylinders.

### 3.3.1 HYDRAULIC PUMP

Hydraulic power is supplied to the system by one or more pumps driven by a Power Take Off (PTO).

### 3.3.2 HYDRAULIC TANK AND VALVE MODULE

The body hydraulic pack, comprising hydraulic tank and valve module, is installed in the front of the body behind the cab. The cab must be tilted to reach the hydraulic pack.

The tailgate hydraulic valve module is located in the tailgate roof tray.



#### Caution:

**Only authorised personnel should adjust or maintain these units.**

### 3.3.3 HYDRAULIC CYLINDERS

All the hydraulic cylinders used in the Olympus ART body range are double-acting, that is they are hydraulically powered out (extension) and hydraulically powered in (retraction).

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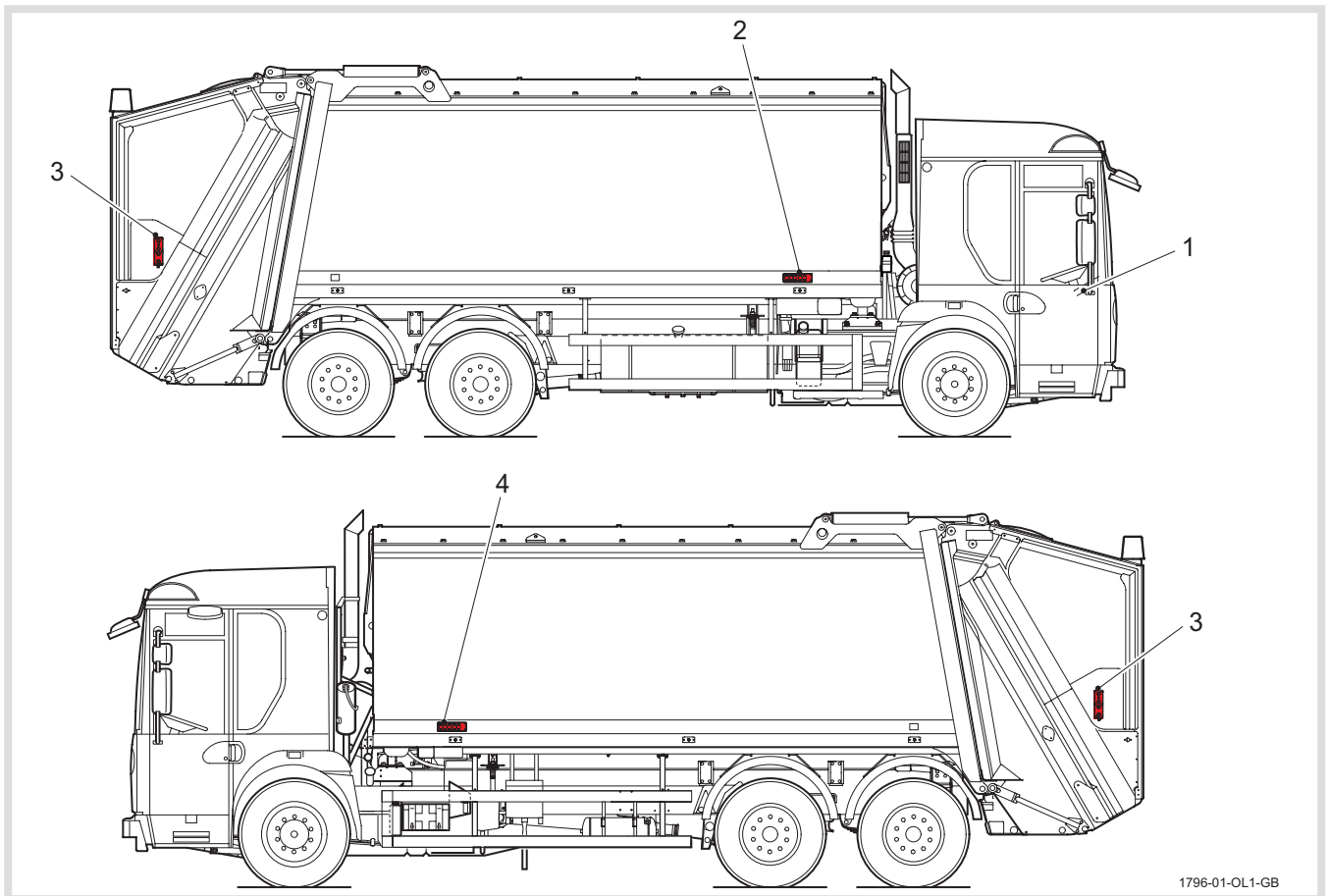
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## 4 OPERATOR'S CONTROLS

### 4.1 CONTROL PANEL LOCATION



1796-01-OL1-GB

Operator's control panels are located at the following points on the vehicle:

1. Cab control panel (see "4.2 Cab control panel" on page 4-4).
2. Discharge control panel (see "4.3 Discharge control panel" on page 4-6).
  - Right-hand drive vehicles.
3. Compaction mechanism control panel (see "4.4 Compaction mechanism control panel" on page 4-9).
4. Discharge control panel (see "4.3 Discharge control panel" on page 4-6).
  - Left-hand drive vehicles.

# OPERATOR'S CONTROLS

## 4.2 CAB CONTROL PANEL

The Cab control panel (see Fig. 4-1) comprises the following controls mounted on top or in the fascia, dependent on chassis type.

1. Warning beacon switch (see "4.2.1 Warning beacon switch (if fitted)" on page 4-4).
2. 'Body master' switch (see "4.2.2 'Body master' switch" on page 4-5).

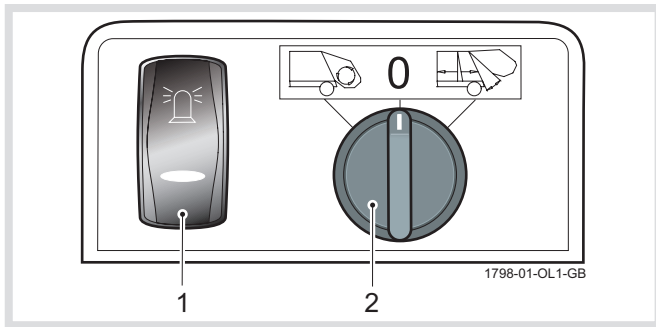
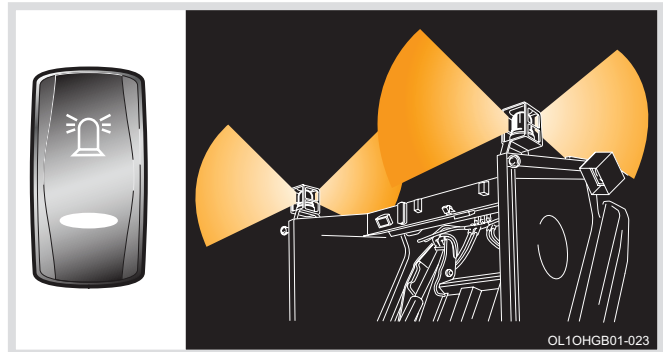


Fig. 4-1 Cab control panel

## 4.2.1 WARNING BEACON SWITCH (IF FITTED)

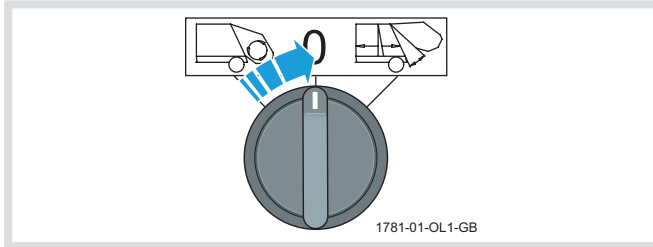
Switches the warning beacons fitted on the tailgate and front of body or on cab (if fitted) on and off.



## 4.2.2 'BODY MASTER' SWITCH

Controls the operation of the body discharge and compaction mechanism controls.

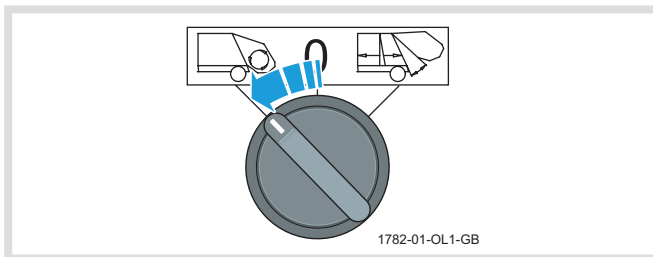
### OFF:



Isolates the body discharge and compaction mechanism controls.

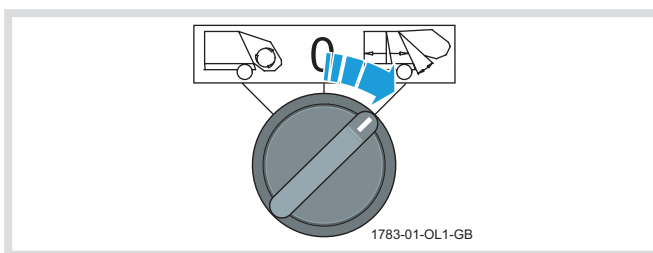
The 'Body master' switch must be in the 'Off' position before switching the ignition on.

### RUN:



Enables the body compaction mechanism and lifting device system controls and disables the body discharge controls.

### TIP:

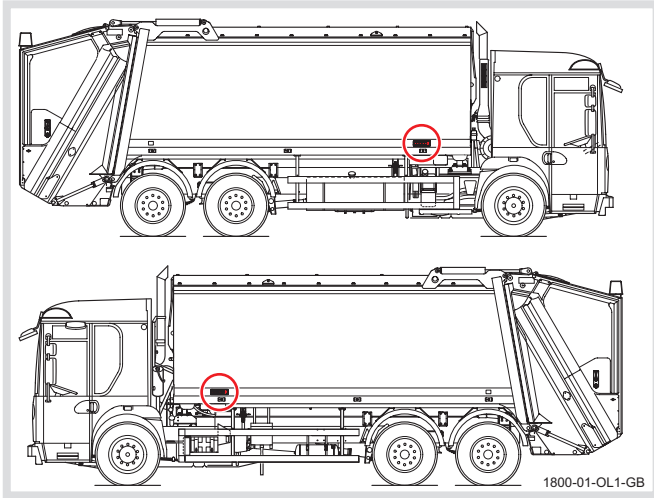


Enables the body discharge controls and disables the body compaction mechanism controls.

- The engine speed will increase and the discharge hydraulics are switched on.

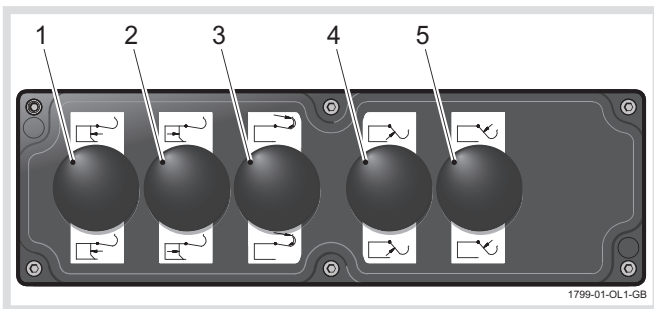
# OPERATOR'S CONTROLS

## 4.3 DISCHARGE CONTROL PANEL

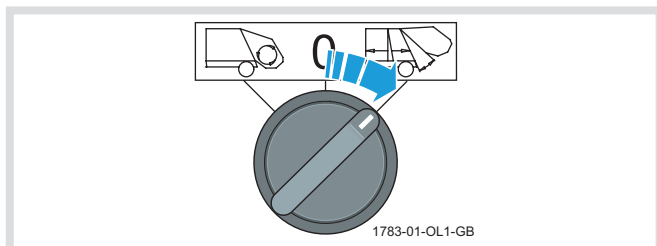


The discharge control panel is located on the right-hand side of the body (right-hand drive vehicles) or the left-hand side of the body (left-hand drive vehicles) at the front of the body. It contains the following controls:

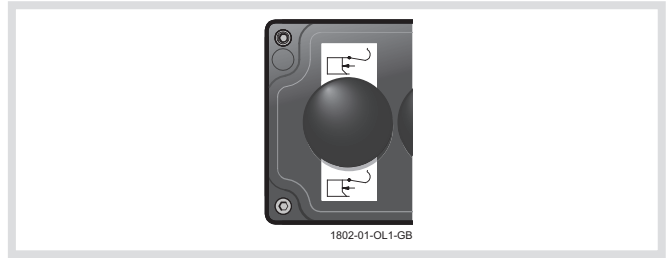
1. 'Ejector plate retract' push-button, (see "4.3.1 'Ejector plate retract' push-button" on page 4-6).
2. 'Ejector plate eject' push-button, (see "4.3.2 'Ejector plate eject' push-button" on page 4-7).
3. 'Tailgate tip clear' push-button, (see "4.3.3 'Tailgate tip clear' push-button" on page 4-7).
4. 'Tailgate raise' push-button, (see "4.3.4 'Tailgate raise' push-button" on page 4-8).
5. 'Tailgate lower' push-button, (see "4.3.5 'Tailgate lower' push-button" on page 4-8).



The controls on the discharge control panel are only energised when the 'Body master' switch is in the 'Tip' position.

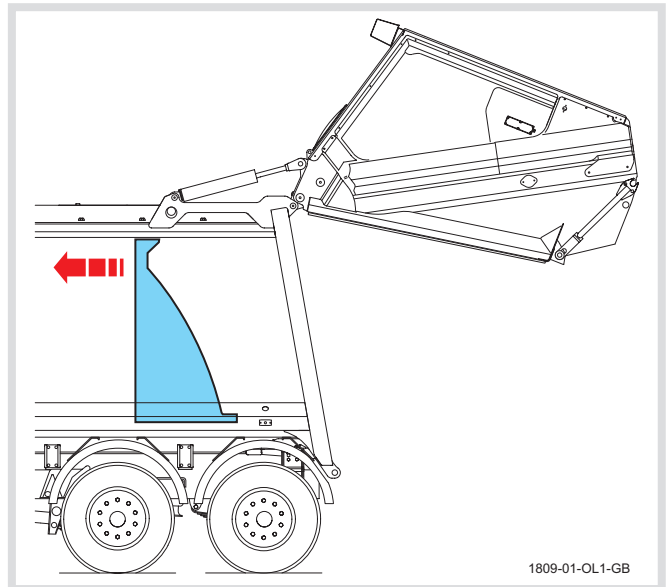


## 4.3.1 'EJECTOR PLATE RETRACT' PUSH-BUTTON



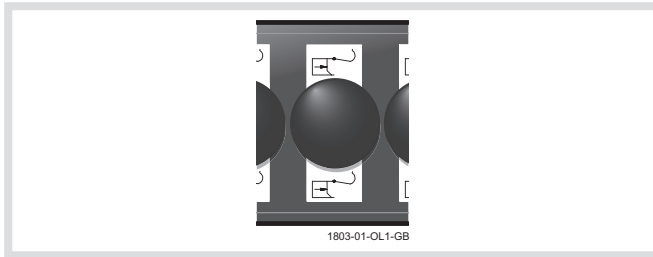
Press and hold the 'Ejector plate retract' push-button to retract the ejector plate.

If the push-button is released at any point during the retraction process, the ejector plate will stop in the position it is in until either the push-button is operated again or the 'eject' push-button is pressed to eject the ejector plate.



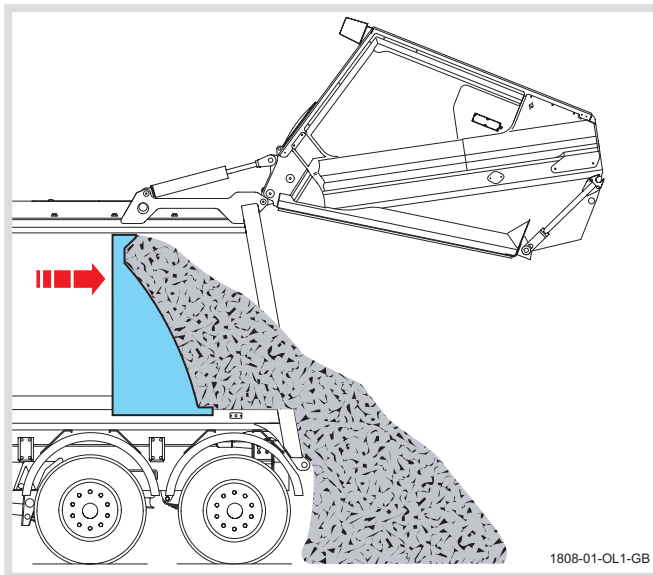
It is not necessary to raise the tailgate to retract the ejector plate.

## 4.3.2 'EJECTOR PLATE EJECT' PUSH-BUTTON

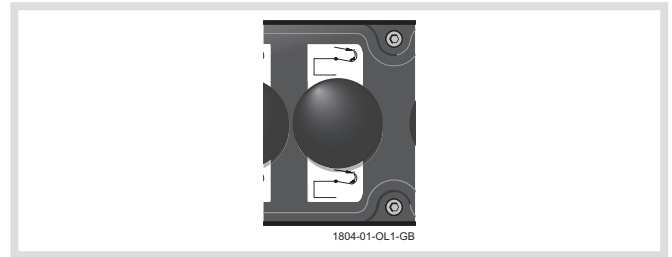


Press and hold the 'Ejector plate eject' push-button to eject the waste at the discharge site.

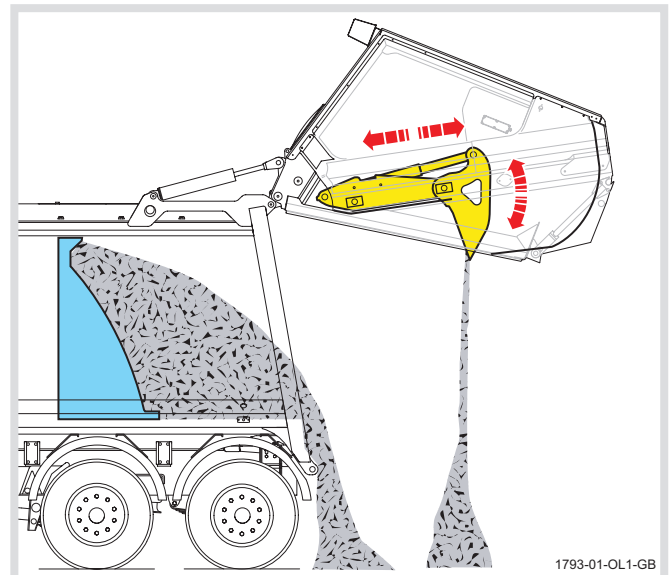
If the push-button is released at any point during the ejection process, the plate will stop in the position it is in until either the push-button is operated again or the retract push-button is pressed to retract the ejector plate.



## 4.3.3 'TAILGATE TIP CLEAR' PUSH-BUTTON

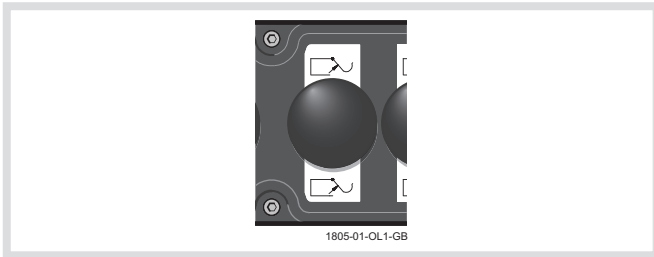


When the tailgate is fully raised, press and hold the 'Tailgate tip clear' push-button to operate the compaction mechanism through one cycle to clear refuse from the tailgate.



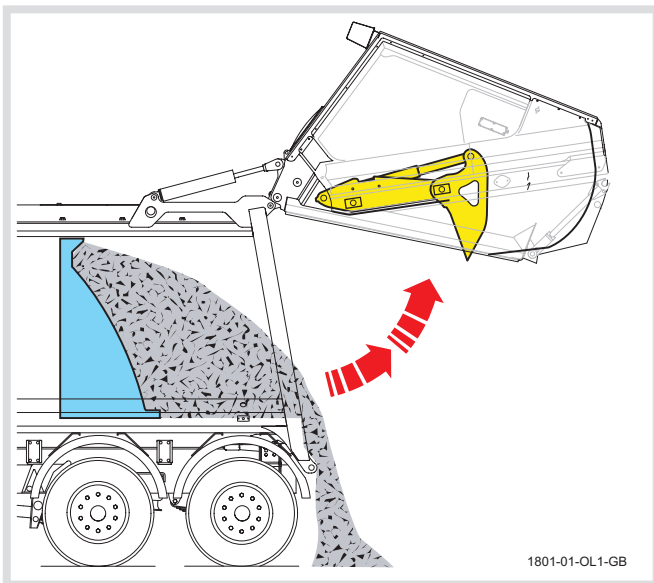
# OPERATOR'S CONTROLS

## 4.3.4 'TAILGATE RAISE' PUSH-BUTTON

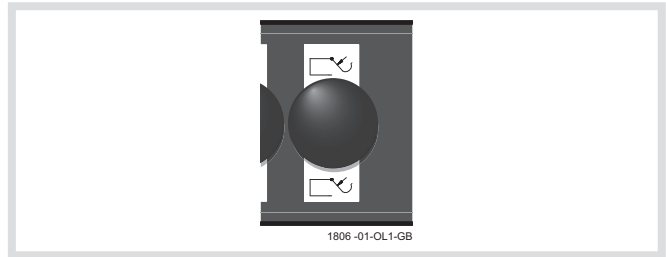


Press and hold the 'Tailgate raise' push-button to raise the tailgate.

If the push-button is released at any point while the tailgate is raising, the tailgate will stop in the position it is in until the push-button is operated again to raise the tailgate.

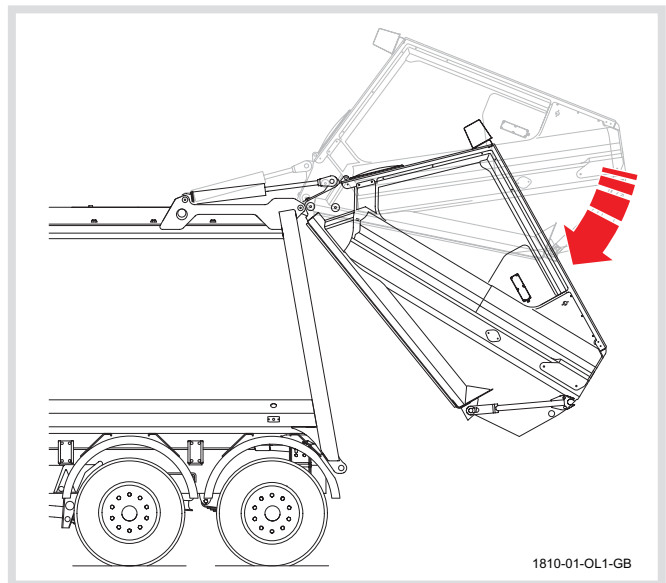


## 4.3.5 'TAILGATE LOWER' PUSH-BUTTON



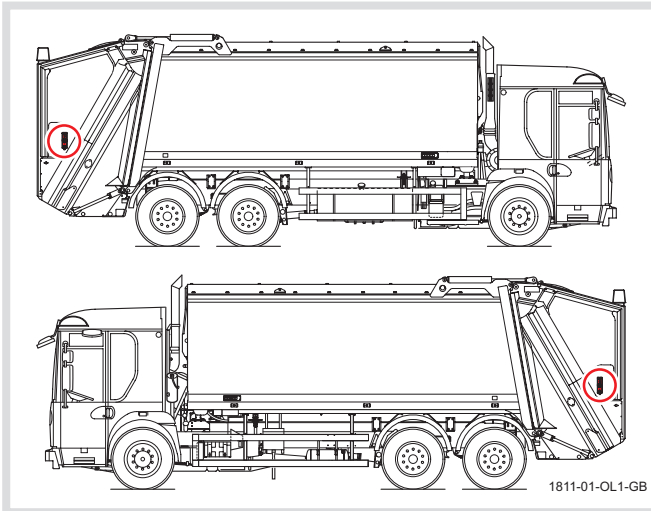
Press and hold the 'Tailgate lower' push-button to lower the tailgate.

If the push-button is released at any point while the tailgate is lowering, the tailgate will stop in the position it is in until the push-button is operated again to lower the tailgate.



**WARNING:**  
MAKE SURE THAT THE TAILGATE AREA IS  
CLEAR OF PERSONNEL.

## 4.4 COMPACTION MECHANISM CONTROL PANEL



The compaction mechanism control panels are located on the left and right-hand side of the tailgate.

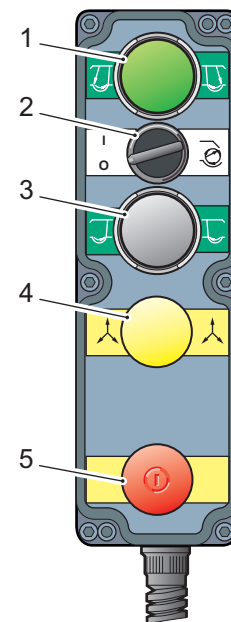
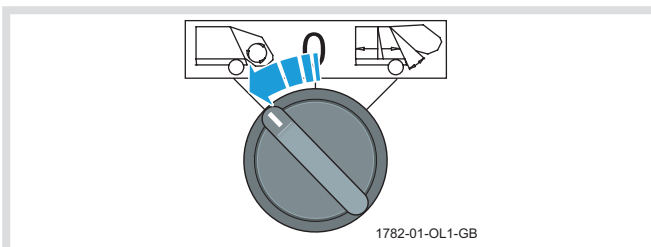
The control panels contain combinations of the following controls:

1. 'Start pack cycle' push-button (Green) (see "4.4.2 'Start pack cycle' push-button (Green)" on page 4-10).
2. 'Intermittent/Continuous cycle' switch (see "4.4.1 'Intermittent/Continuous cycle' switch" on page 4-10).
3. 'Short cycle' push-button (Grey) (see "4.4.3 'Short cycle' push-button (Grey)" on page 4-11).
4. 'Rescue' push-button (Yellow) (see "4.4.4 'Rescue' push-button (Yellow)" on page 4-11).
5. 'Emergency stop' push-button (Red) (see "4.5 'Emergency stop' push-buttons" on page 4-12).



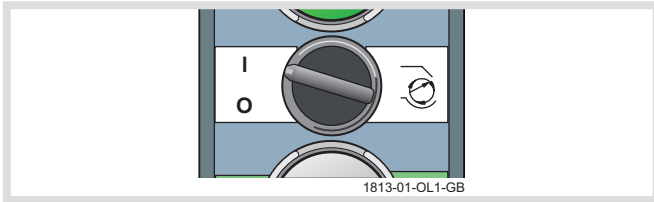
All controls on the compaction mechanism control panel are only energised when the 'Body master' switch is in the 'Run' position.

The 'Emergency stop' push-button is operational at all times.



# OPERATOR'S CONTROLS

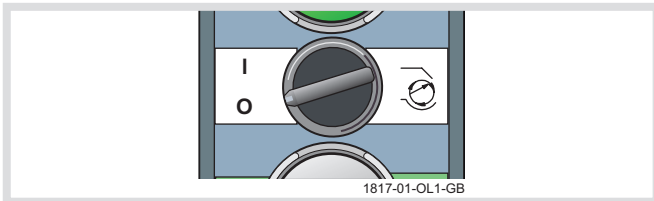
## 4.4.1 'INTERMITTENT/CONTINUOUS CYCLE' SWITCH



### Position I: Continuous cycle mode.

When the 'Start pack cycle' push-button is operated, the compaction mechanism operates continuously until one of the following happens:

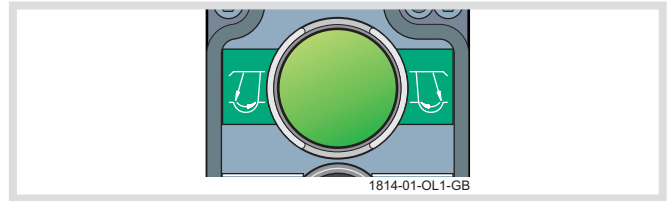
- The vehicle hand brake is released and/or a vehicle gear is selected (dependent on vehicle chassis), when the compaction mechanism will complete the cycle and stop in the fully packed position.
- The 'Intermittent/Continuous cycle' switch is turned to position 0 intermittent cycle mode when the compaction mechanism will complete the cycle and stop in the fully packed position.
- An 'Emergency stop' push-button is operated, when the compaction mechanism will stop immediately.



### Position O: Intermittent cycle mode.

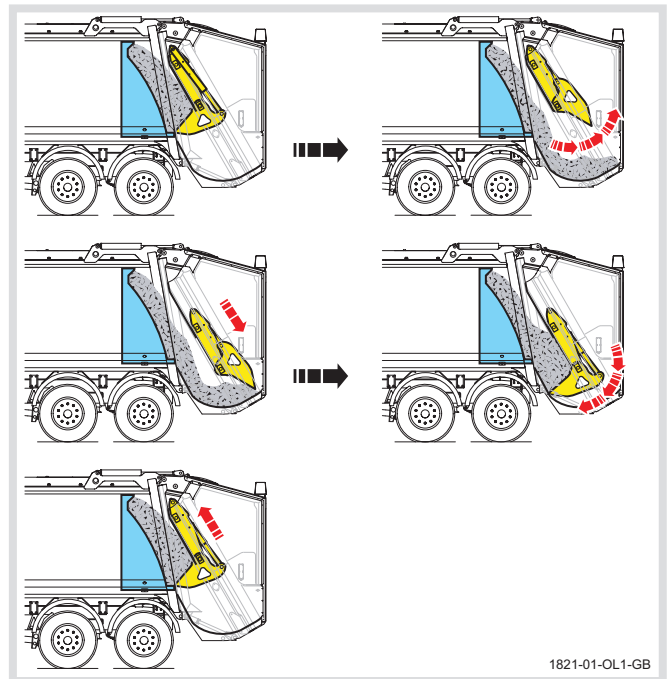
When the 'Start pack cycle' push-button is operated, the compaction mechanism completes a single pack cycle and stops in the fully packed position.

## 4.4.2 'START PACK CYCLE' PUSH-BUTTON (GREEN)



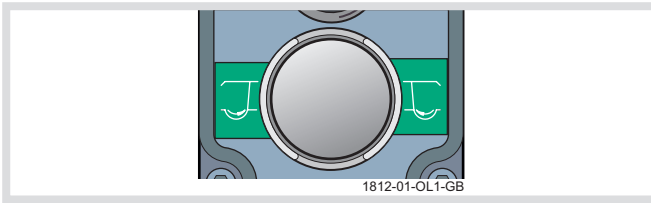
Pressing and releasing the 'Start pack cycle' push-button causes the following sequence of events.

- The engine speed will increase.
- The compaction mechanism will carry out one complete cycle and stop.
- The engine speed will slow down to idle.



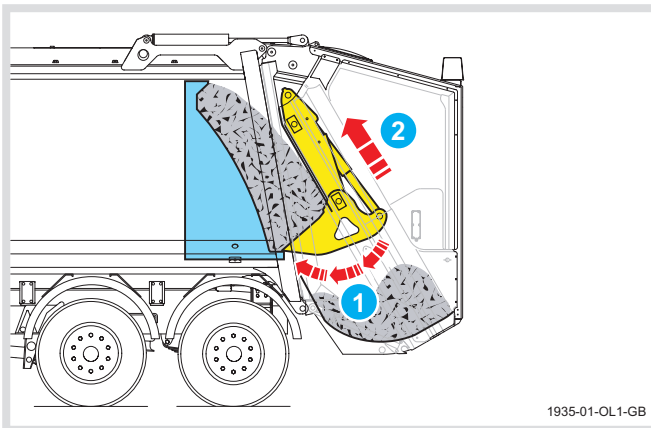
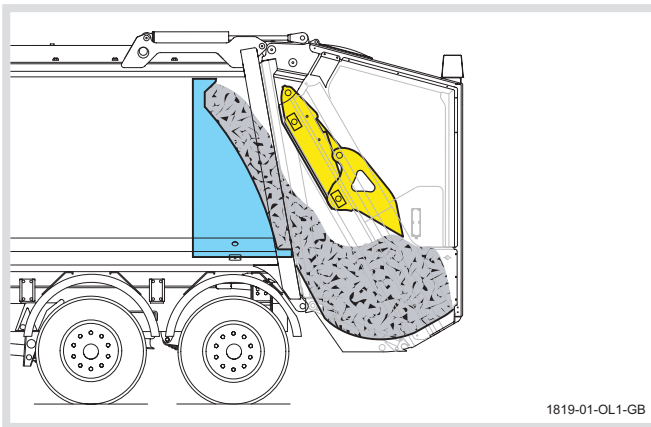


## 4.4.3 'SHORT CYCLE' PUSH-BUTTON (GREY)

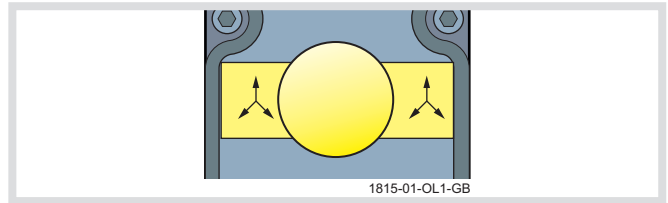


This push-button enables a shorter compaction cycle to be used to clear an overloaded hopper in the tailgate.

If the 'Short cycle' push-button is pressed and released while the carriage plate is moving downwards, the carriage plate will stop, the packer plate will begin to close early (1) and the carriage plate will then move upwards (2) in the normal manner.



## 4.4.4 'RESCUE' PUSH-BUTTON (YELLOW)

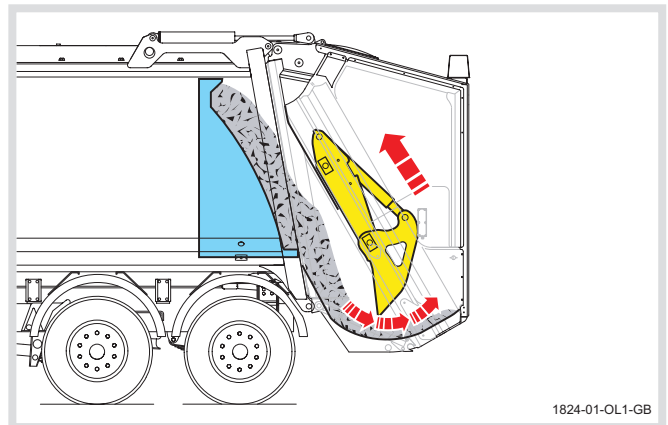


Pressing and holding the 'Rescue' push-button against spring action will cause the compaction mechanism packer plate to open and carriage plate to move upwards simultaneously. This is used to reverse the mechanism away from the tailgate floor to enable jams to be cleared.

The mechanism will continue to operate while the push-button is pressed.

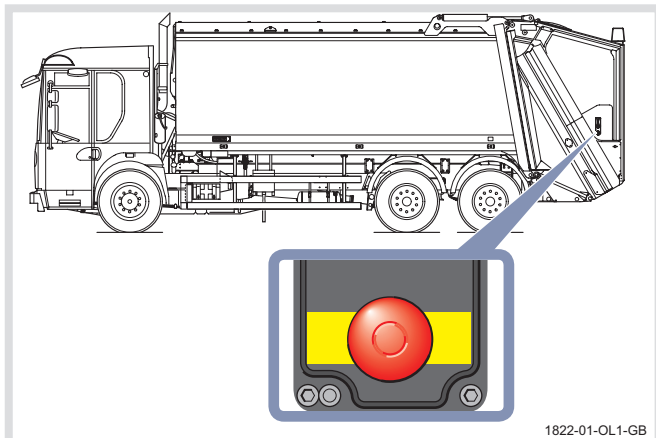
When the push-button is released, the mechanism will stop immediately.

The mechanism remain in the stopped position until the 'Body master' switch has been turned to 'Off' and then back to 'Run' and then one of the controls is pressed to operate the mechanism.



# OPERATOR'S CONTROLS

## 4.5 'EMERGENCY STOP' PUSH-BUTTONS



'Emergency stop' push-buttons are located:

- On each compaction mechanism control panel.
- On the lifting device control panel.

Operation of any one 'Emergency stop' push-buttons will:

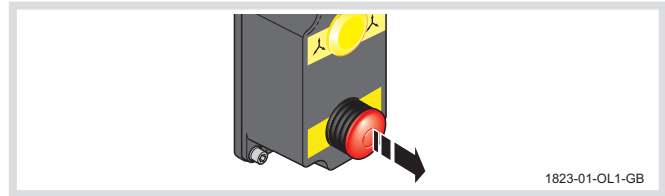
- Stop all refuse operations except the 'Rescue' function instantly (including lifting device functions, if fitted).

Operations cannot be resumed until the push-button is reset.

## 4.5.1 RESETTING THE 'EMERGENCY STOP' PUSH-BUTTON

To reset the 'Emergency stop' push-button.

1. Pull the button outwards.



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## 5 OPERATING THE MACHINE



**WARNING:**  
**OPERATIVES MUST HAVE A GOOD KNOWLEDGE OF HOW THE EQUIPMENT WORKS.**

### 5.1 OPERATIONAL SAFETY



**WARNINGS:**  
**IMPORTANT - BEFORE OPERATING THE REFUSE MECHANISM OPERATIVES MUST HAVE READ AND UNDERSTOOD ALL APPLICABLE SAFETY PRECAUTIONS, INCLUDING SECTION 2 OF THIS MANUAL.**

**BEFORE OPERATING THE VEHICLE MAKE SURE THERE IS NO REFUSE, PAPER OR FLAMMABLE MATERIALS NEAR THE ENGINE OR EXHAUST. THESE COULD CAUSE A FIRE WHEN THE ENGINE IS STARTED. IF NECESSARY, TILT THE CAB (SEE CHASSIS MANUFACTURER'S OPERATOR'S HANDBOOK) TO MAKE A THOROUGH INSPECTION.**

**IN ADDITION, THE FOLLOWING SAFETY INSTRUCTIONS MUST BE ADHERED TO DURING THE VARIOUS PHASES OF THE OPERATING CYCLE MENTIONED IN THIS SECTION.**

#### 5.1.1 PACKER PLATE OPENING

1. Operatives must keep clear of the loading area at all times during the compaction cycle as refuse can fall back into the tailgate.
2. Do NOT overload the tailgate as the packer plate can push refuse out of the tailgate onto operatives causing damage or injury.

#### 5.1.2 CARRIAGE PLATE MOVING DOWN

1. When moving the carriage plate down under manual control always ensure the loading area is clear.
2. When moving down, the carriage plate can crush and then deflect an object from the tailgate. Operatives must stand well clear of the tailgate to avoid possible injury.
3. If using manual control to move the carriage plate down, short stroke should be used to prevent the packer plate pushing refuse rearwards over the rake rail.

#### 5.1.3 PACKER PLATE CLOSING

1. Operatives must be aware that if refuse escapes under or around the side of the packer plate when it is closing, they must never reach into the tailgate to assist.

#### 5.1.4 CARRIAGE PLATE MOVING UP

1. If refuse or liquid escapes through the gap between the body and tailgate the joint seal is probably in need of renewing and must be reported to supervision.
2. If the tailgate locks show signs of damage report to supervision.
3. As liquid can sometimes squirt from small gaps around the compaction mechanism, operatives must stand well clear when the carriage plate is moving up.

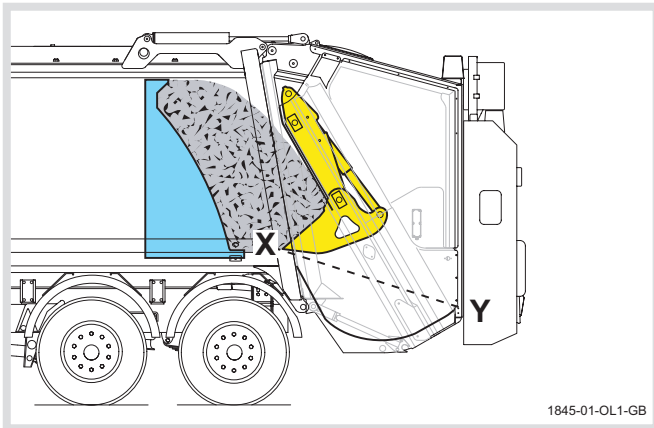
# OPERATING THE MACHINE

## 5.2 LOADING REFUSE



**Caution:**  
Do not overfill the hopper when loading refuse.

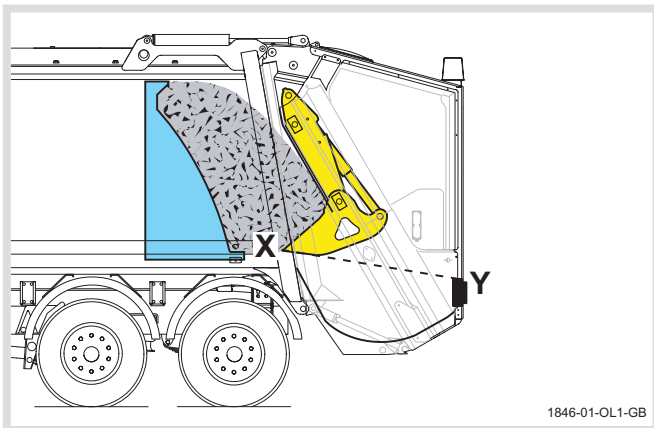
During loading, refuse must not be allowed to accumulate above the level of the tailgate structural rave rail, i.e. above a line extending from where the hopper floor meets the body floor (X) and the top of the structural rave rail (Y).



Overloading may cause damage to the rave rail, lifting device frame or lifting device.

### Vehicles with Rave Rail Extension

Most Open System vehicles are fitted with a structural rave rail extension. On these vehicles refuse can be loaded to a higher level.



## 5.3 OPERATING THE CONTROLS

### 5.3.1 INTRODUCTION

All operating cycle sequences of the compaction mechanism are operated using the control panels mounted on the side of the tailgate.



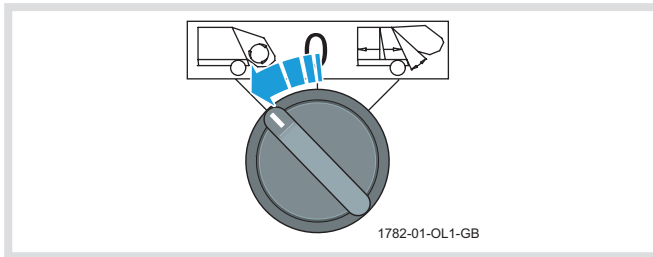
**Caution:**  
Always turn the 'Body master' switch to 'Off' when the body control systems are not being used.

### 5.3.2 ENERGISING THE CONTROL PANELS

To prevent unauthorised use, the compaction mechanism controls are energised by operating switches on the cab control panel.

The control panels are energized as follows.

1. Start and run the engine.
2. Turn the 'Body master' switch to 'Run'.



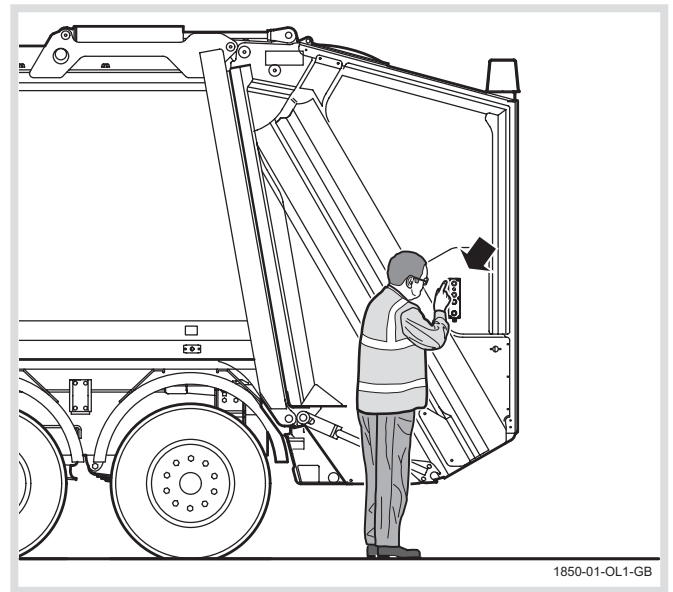
The compaction mechanism controls are now energised.

### 5.3.3 OPERATING THE COMPACTION MECHANISM CONTROLS

When operating the compaction mechanism controls stand beside the control panel and observe the operation of the compaction mechanism through the observation window, arrowed.



**WARNING:**  
OPERATIVES MUST KEEP CLEAR OF THE LOADING AREA AT ALL TIMES DURING THE COMPACTION CYCLE AS REFUSE CAN FALL BACK INTO THE TAILGATE.

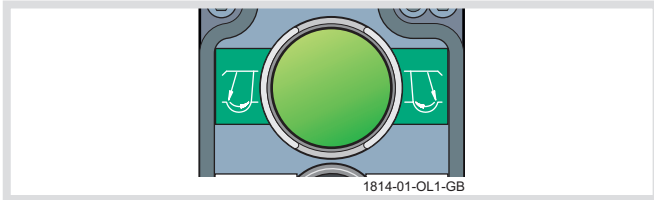


# OPERATING THE MACHINE

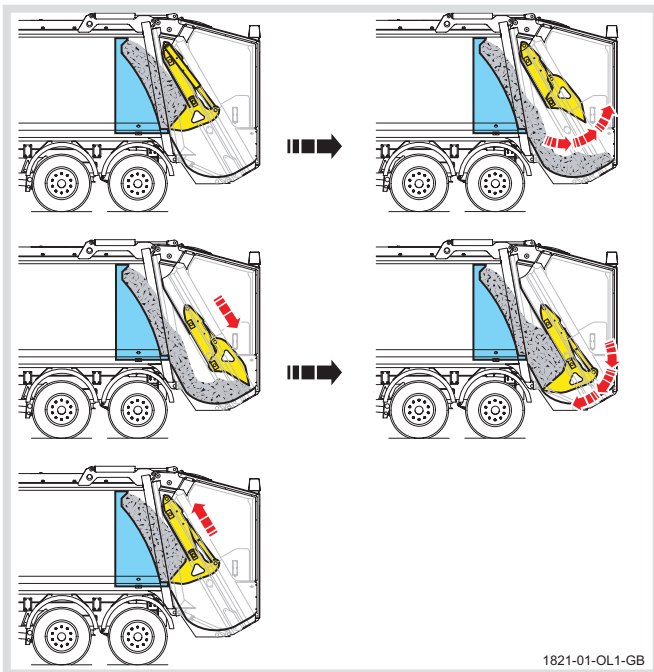
## 5.3.4 AUTOMATIC LOADING CYCLE

To start one loading cycle:

1. Check that the tailgate area is clear.
2. Press and release the 'Start Pack Cycle' push-button on the compaction mechanism control panel.

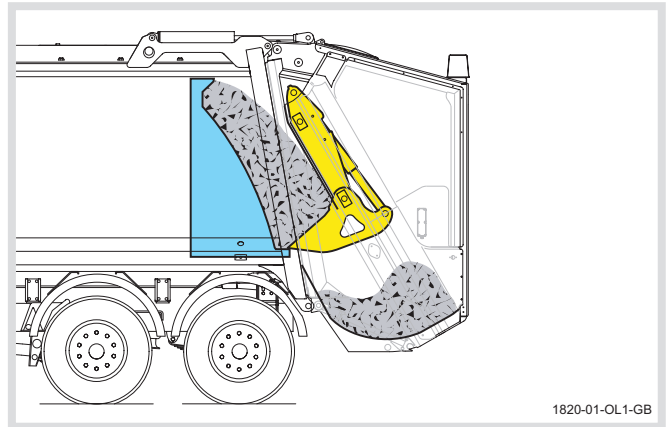


- The engine speed will increase.  
The compaction mechanism will carry out one complete cycle and stop.  
The engine speed will slow down to idle.



## 5.3.5 'SHORT CYCLE' OPERATION

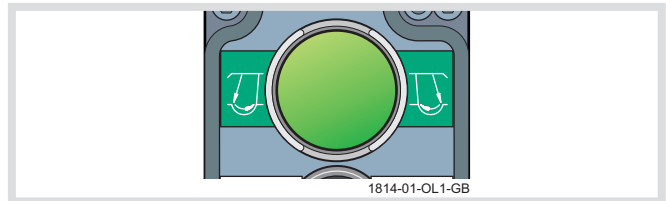
If the tailgate is overloaded, the refuse cannot be contained as the carriage plate and packer plate descend.



This may result in the packer plate pushing refuse out of the tailgate.

In this case a 'Short cycle' stroke can be executed by taking the following action:

1. Press and release the 'Start pack cycle' push-button on the compaction mechanism control panel.

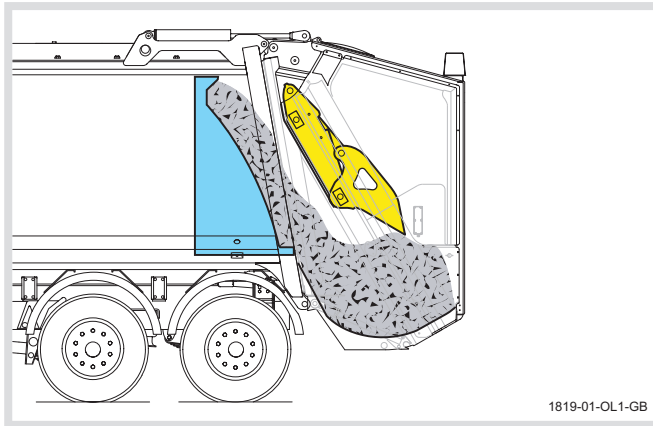


- The packer plate will open.
- The carriage plate will move downwards.

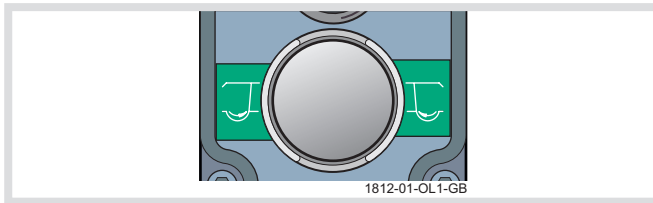
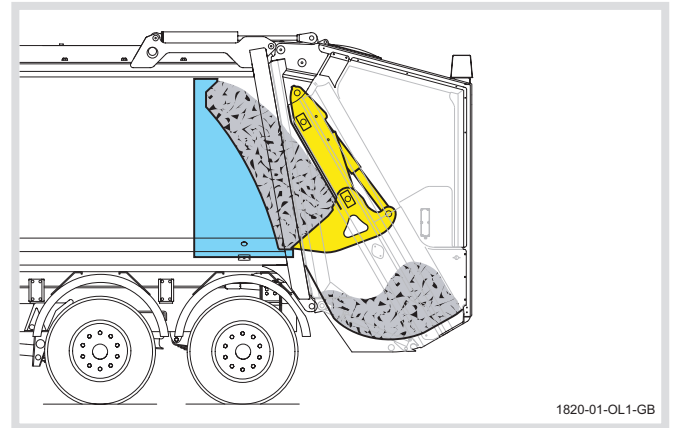


# OPERATING THE MACHINE

2. When the packer plate engages the refuse anywhere while the carriage plate is moving downwards, press and release the 'Short cycle' push-button.



- The carriage plate will stop moving downwards and the packer plate will begin to close early and then the carriage plate will move upwards in the normal manner.



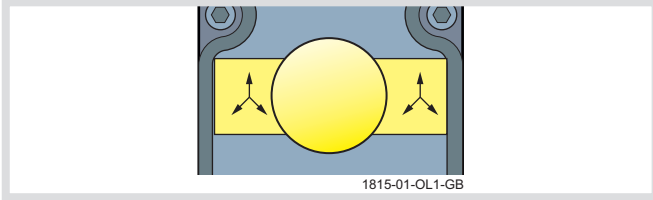
3. Repeat this operation until the tailgate is clear.

# OPERATING THE MACHINE

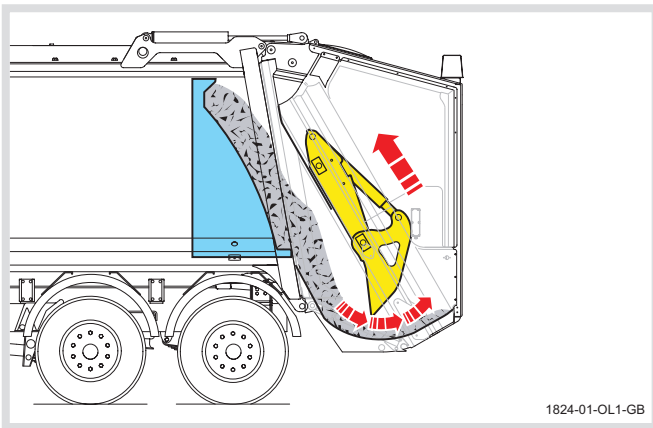
## 5.3.6 RESCUE

To reverse the mechanism:

1. Press and hold down the 'Rescue' push-button on the compaction mechanism control panel.



- The packer plate will open and the carriage plate will move upwards simultaneously from any position.



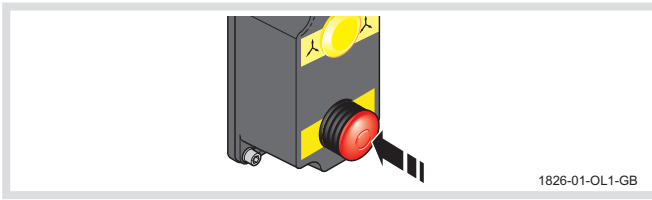
It is not necessary to stop the mechanism before pressing the 'Rescue' push-button, it can be pressed any time during the loading cycle. Pressing the 'Rescue' push-button will automatically stop the loading cycle. The function is also available when an 'Emergency stop' push-button has been pressed, or when Drive or Reverse has been selected on the vehicle's automatic transmission. The engine speed will not increase.

When the button is released, the mechanism will stop immediately.

## 5.3.7 'EMERGENCY STOP'

To stop the mechanism in an emergency, either:

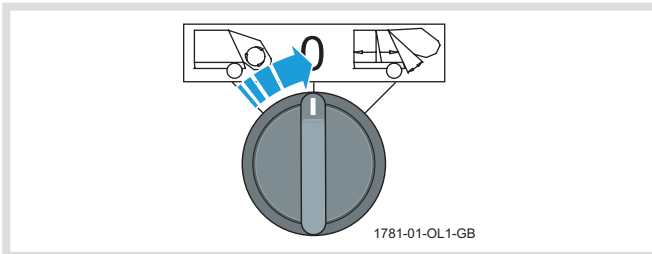
1. Press any 'Emergency stop' push-button.



All refuse operations (including lifting device functions, if fitted) except the 'Rescue' function will stop instantly.

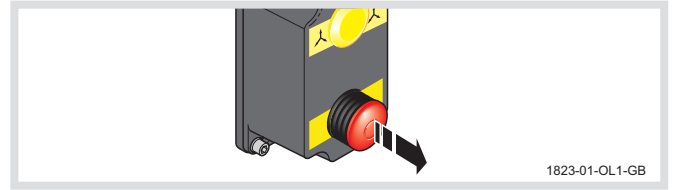
or;

2. Turn the 'Body master' switch to 'Off'.



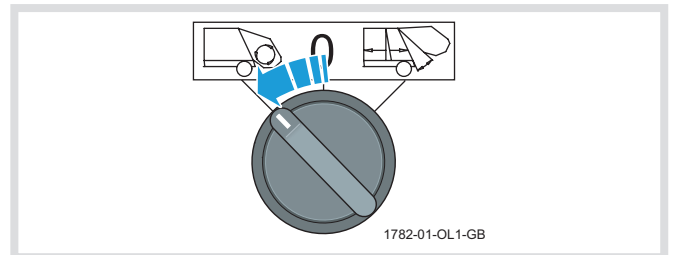
To resume the loading cycle, either:

1. Pull out the 'Emergency stop' push-button.

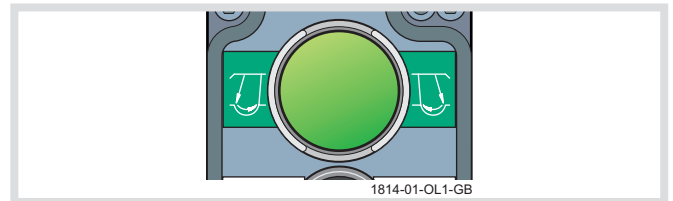


or (if the mechanism has been stopped by turning the 'Body master' switch to 'Off');

2. Turn the 'Body master' switch to 'Run'.



3. Press and release the 'Start pack cycle' push-button on the compaction mechanism control panel.



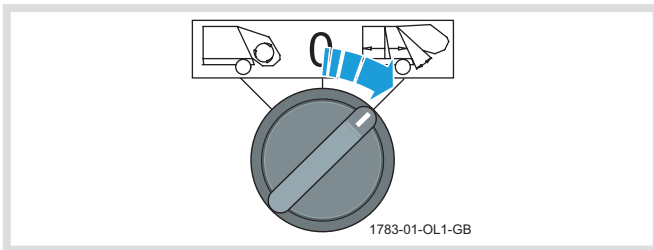
# OPERATING THE MACHINE

## 5.4 DISCHARGING REFUSE



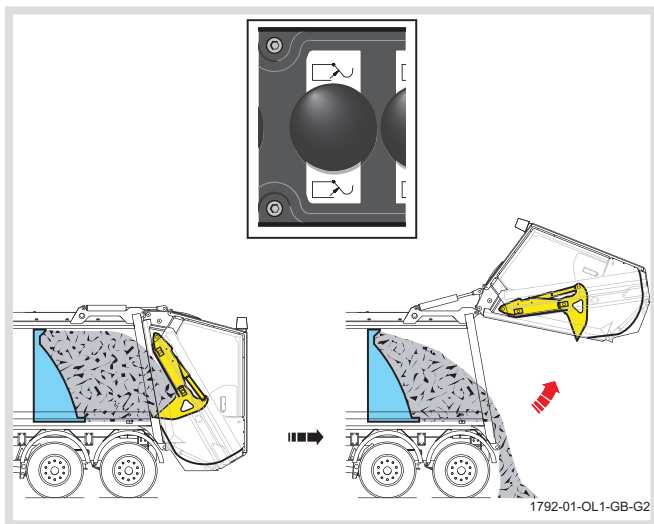
**WARNING:**  
AFTER DISCHARGING THE REFUSE, MAKE SURE THERE IS NO REFUSE, PAPER OR FLAMMABLE MATERIALS NEAR THE ENGINE OR EXHAUST. THESE COULD CAUSE A FIRE WHEN THE ENGINE IS STARTED. IF NECESSARY, TILT THE CAB (SEE CHASSIS MANUFACTURER'S OPERATOR'S HANDBOOK) TO MAKE A THOROUGH INSPECTION.

1. Ensure the vehicle is suitably positioned on stable ground and the rear of the vehicle is clear.
2. Start and run the engine.
3. Turn the 'Body master' switch to 'Tip'.

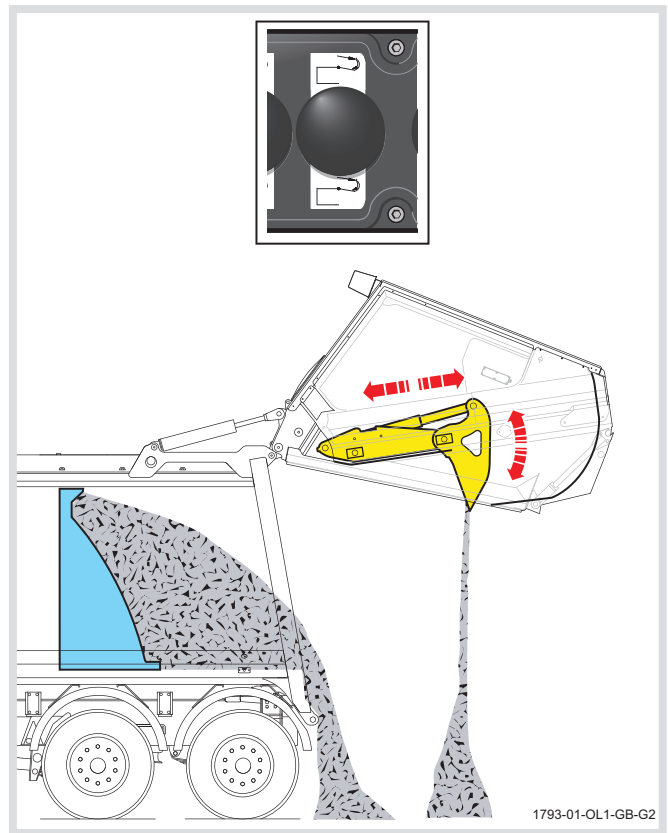


**WARNING:**  
MAKE SURE THAT YOU KNOW THE HEIGHT OF YOUR VEHICLE WITH THE TAILGATE AND LIFTING DEVICE, IF FITTED, RAISED.

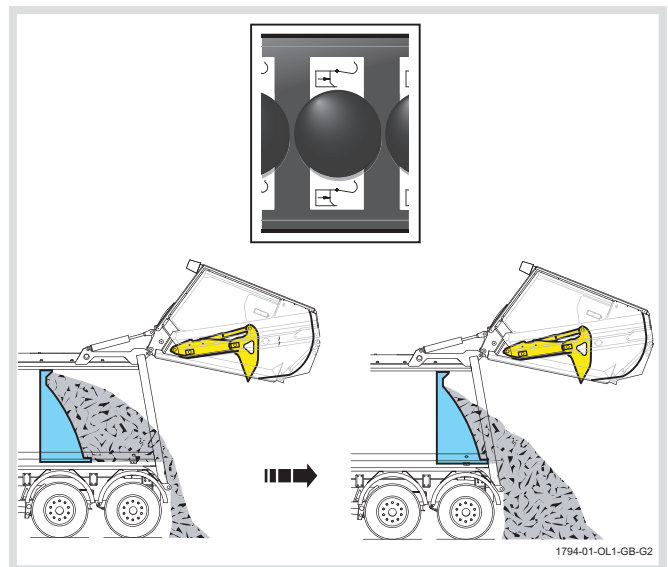
4. Press the 'Tailgate raise' push-button until the tailgate is fully raised and then release the push-button.



5. Press and hold the 'Tailgate tip clear' push-button to operate the compaction mechanism push full cycle to clear refuse from the tailgate.



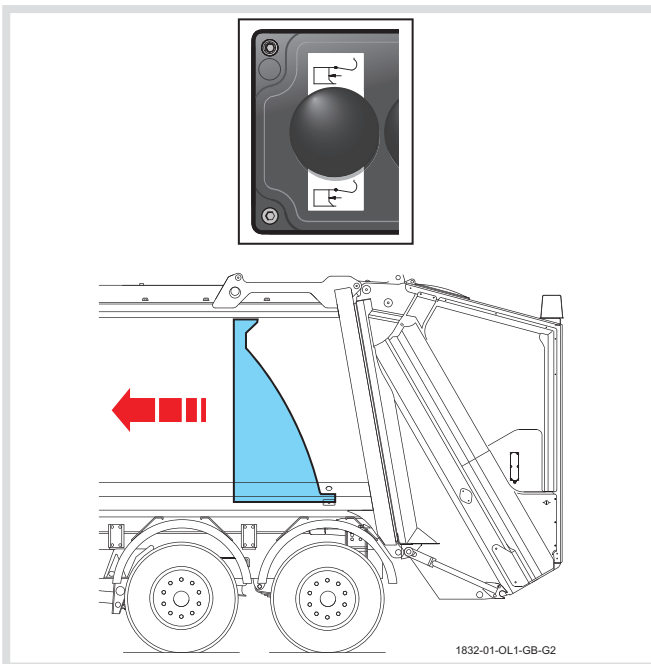
6. Press the 'Ejector plate eject' push-button to discharge contents of body and then release the push-button.



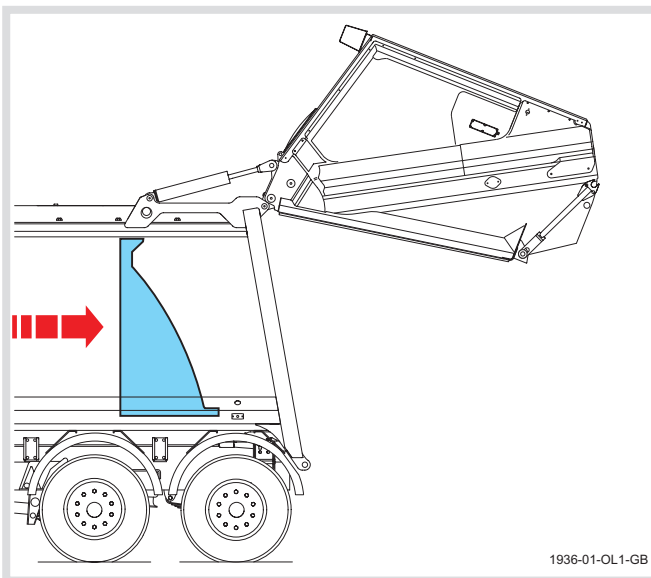
Leave barrier at rear of body ready for next collection.

# OPERATING THE MACHINE

7. If travelling a long distance, press the 'Ejector plate retract' push-button to position the ejector plate at the front of the body.



Move the ejector plate to the rear of the body at the first collection point.



The tailgate must be raised before the ejector plate can be moved.



**WARNINGS:**  
MAKE SURE THAT THE TAILGATE AREA IS CLEAR OF PERSONNEL.

MAKE SURE THAT YOU KNOW THE HEIGHT OF YOUR VEHICLE WITH THE TAILGATE AND LIFTING DEVICE, IF FITTED, RAISED.

8. Move vehicle to a safe area.

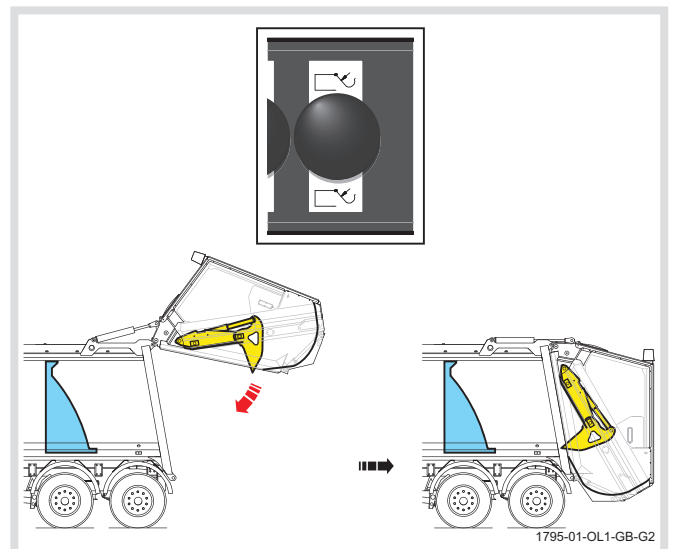


**WARNINGS:**  
MAKE SURE THAT THE TAILGATE AREA AND BODY/TAILGATE SEAL IS CLEAR OF DEBRIS BEFORE LOWERING THE TAILGATE.

ALWAYS INSERT THE TAILGATE PROPS TO SUPPORT THE TAILGATE IF CLEANING REQUIRES YOU TO WORK BENEATH IT.

THE TAILGATE SEAL SHOULD BE KEPT IN GOOD CONDITION AND REPLACED IF DAMAGED.

9. Press the 'Tailgate lower' push-button to lower the tailgate fully into its locks.



# OPERATING THE MACHINE

## 5.5 PROPPING/UNPROPPING THE TAILGATE

### 5.5.1 TO PROP THE TAILGATE



Bodies are normally fitted with one prop; two props are available as a customer option.

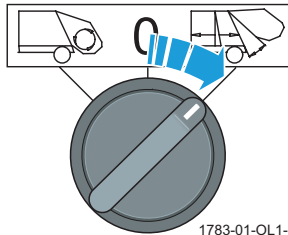
One prop, correctly positioned, will be sufficient to hold the tailgate.

1. Stand the vehicle on clean, level and stable ground.
2. Engage the parking brakes.
3. Select Neutral 'N' on the vehicle transmission.



**WARNING:**  
MAKE SURE THAT YOU KNOW THE HEIGHT OF YOUR VEHICLE WITH THE TAILGATE AND LIFTING DEVICE, IF FITTED, RAISED.

4. Start and run the engine.
5. Turn the 'Body master' switch to 'Tip'.

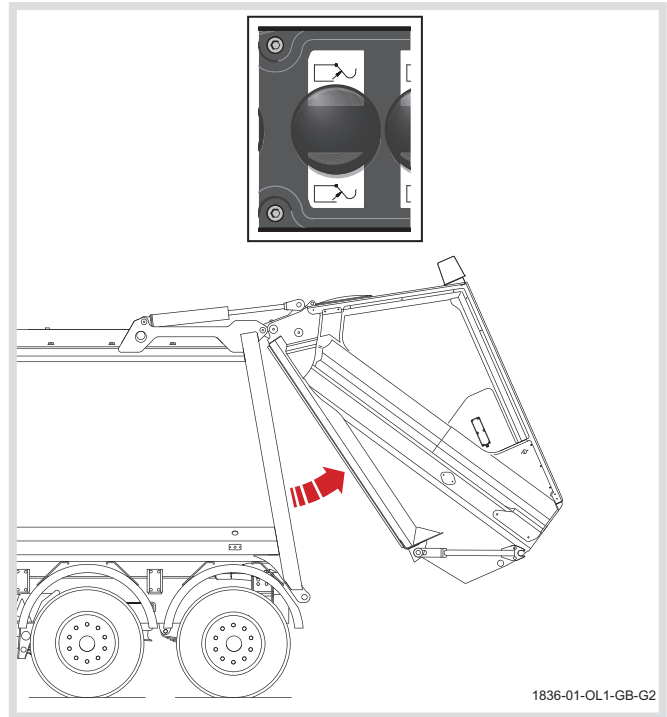


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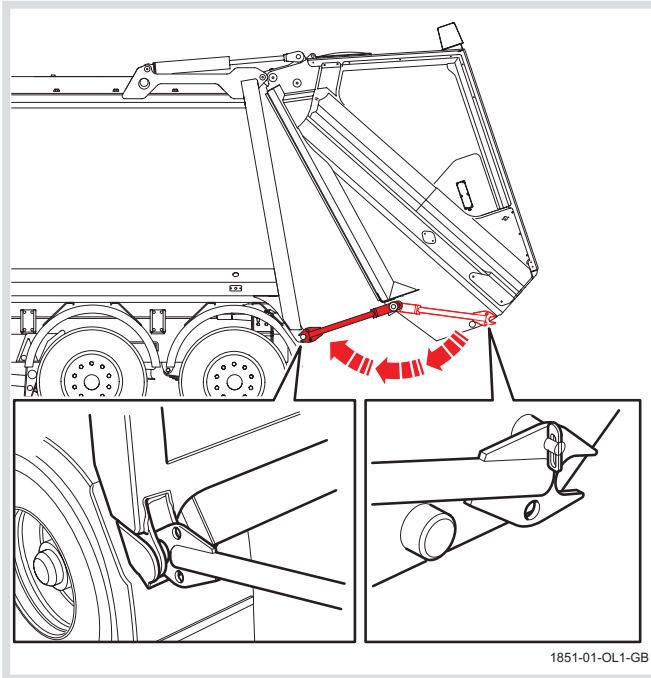
**WARNING:**  
MAKE SURE THAT YOU KNOW THE HEIGHT OF YOUR VEHICLE WITH THE TAILGATE AND LIFTING DEVICE, IF FITTED, RAISED.

6. Press and hold the 'Tailgate raise' push-button until the tailgate is approximately 1 metre from the body and then release the button.

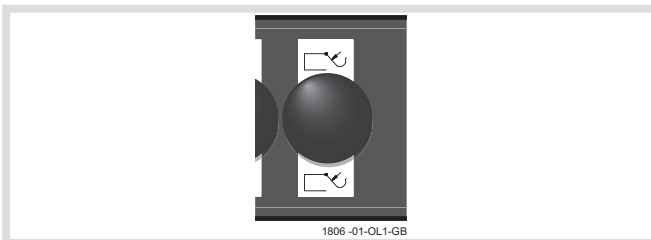


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7. Release the prop from tailgate by turning the antiloose clip and swing into position using the slotted eye feature at the tailgate end of the prop to engage the prop securely on the landing pad bracket at the rear of the body.



8. Press the 'Tailgate lower' push-button to lower the tailgate until the prop is fully closed taking the full weight of the tailgate.



9. Stop the engine.

# OPERATING THE MACHINE

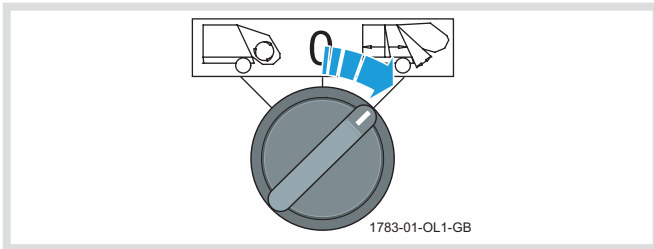
## 5.5.2 TO UNPROP THE TAILGATE

1. Engage the parking brakes.
2. Select Neutral 'N' on the vehicle transmission.
3. Start and run the engine.



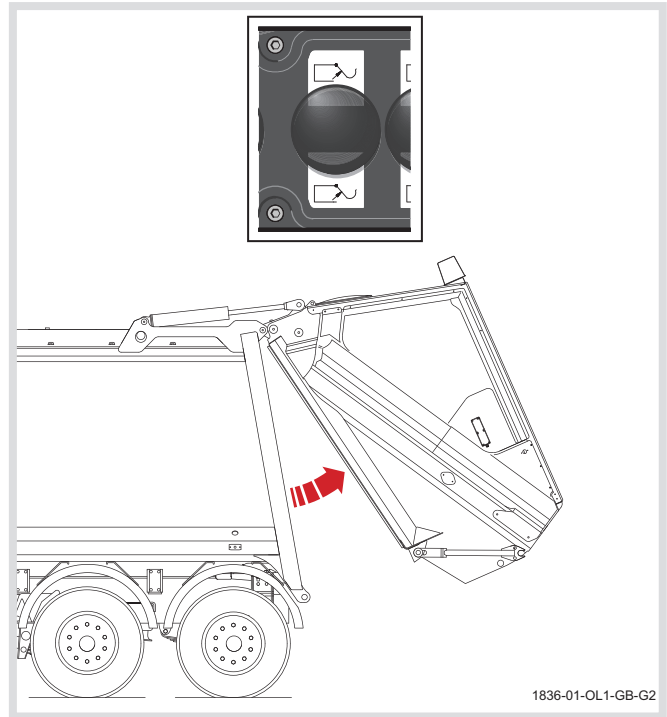
**WARNING:**  
MAKE SURE THAT YOU KNOW THE HEIGHT OF YOUR VEHICLE WITH THE TAILGATE AND LIFTING DEVICE IF FITTED, RAISED.

4. Start and run the engine.
5. Turn the 'Body master' switch to 'Tip'.



**WARNING:**  
MAKE SURE THAT YOU KNOW THE HEIGHT OF YOUR VEHICLE WITH THE TAILGATE AND LIFTING DEVICE, IF FITTED, RAISED.

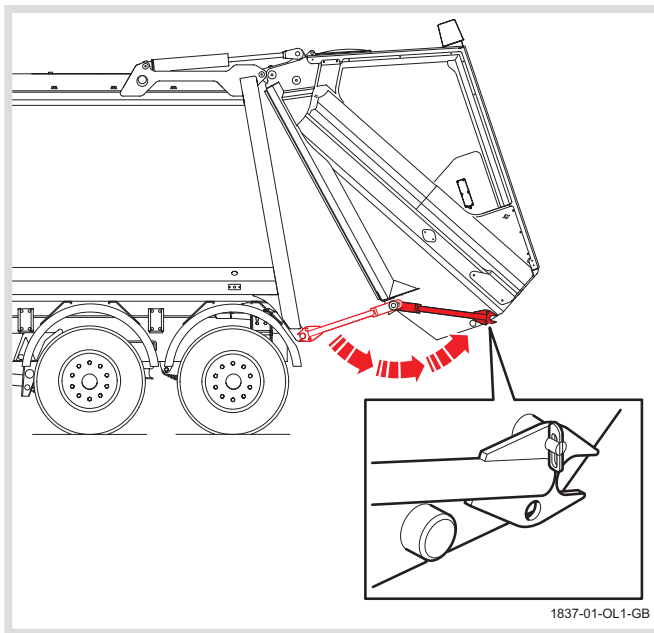
6. Press and hold the 'Tailgate raise' push-button to 'Raise' the tailgate approximately 100 mm to take the weight off the prop and then release the button.



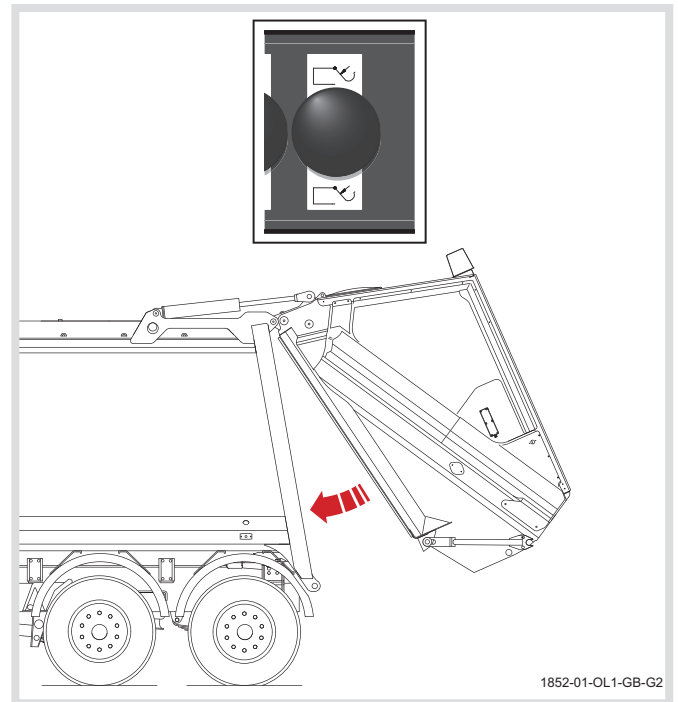


## OPERATING THE MACHINE

- Disengage the prop from the tailgate lower pin, swing the prop into the stow position on the tailgate and secure with the retaining clip.



- Press the 'Tailgate lower' push-button to lower the tailgate fully into its locks.
  - Check that the tailgate lowers and engages both locks evenly.



- Check that the tailgate is sitting square on the body.

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## 6 OPTIONAL EQUIPMENT

No optional equipment is fitted to this Olympus ART refuse collection vehicle.

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## 7 SUPPLEMENTARY INFORMATION

### **Supplementary information/owners comments**

This page has been left blank to enable supplementary information to be incorporated in the handbook or for the owner to make notes.

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# SUPPLEMENTARY INFORMATION

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