

# THE GIBSON PENDULUM REFUSE COLLECTOR



*THE MOST POPULAR*

**JOHN GIBSON & SON LTD.**

Jameson Place · Leith · Edinburgh 6  
Tel : Leith 35418 (4 lines) Grams : 'Aero' Edinburgh

# THE GIBSON PENDULUM REFUSE COLLECTOR

THIS NEW GIBSON DESIGN marks an important step forward in refuse collection vehicles. Over thirty years' experience lies behind the 'Pendulum,' which is undoubtedly the most economical and efficient collection vehicle on the market.

Consider these features:—The 'Pendulum' may be fitted to almost any chassis, and models of 13–20 cubic yards capacity are available, taking 4–6 tons of normal household refuse. The low loading line enables quick and easy loading, and the high compression available makes the best use of space. In the 'Pendulum' mechanism there is only one working part—so there is nothing to go wrong and hardly any maintenance is necessary.

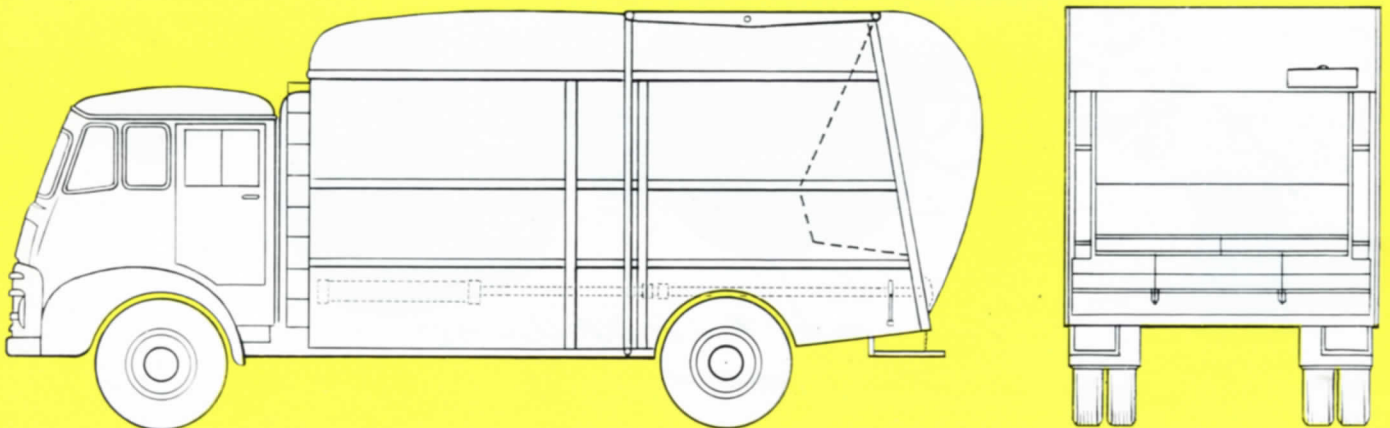
How does it work? Briefly, as follows:—The 'Pendulum' forms the back of the vehicle body, the top resting in a fork joint. On the floor, running down the centre of the body, is a hydraulic ram, one end of which is connected by a quick-release pin to the barrier

of the pendulum. This ram draws the pendulum in to compress the refuse each time a load is emptied in through the doors. The lever control for this mechanism may be situated at the rear of the vehicle, on either side, or in the driver's cab, as desired.

For emptying the load, a normal double-ram hydraulic tipping mechanism is employed, and when the vehicle body tips, a lever arrangement swings the pendulum mechanism well clear of the discharging refuse.

Other features of this design include:—A large capacity bulk storage container in the roof, access to which is by means of a ladder behind the cab. Large dust canopies are fitted to the back of the body to shield the loading operation from wind. An electric bell is affixed to the rear of the body for signals to the driver. Riding steps are fitted at the back for operatives, and these are chain hung to fold out of the way when the vehicle tips.

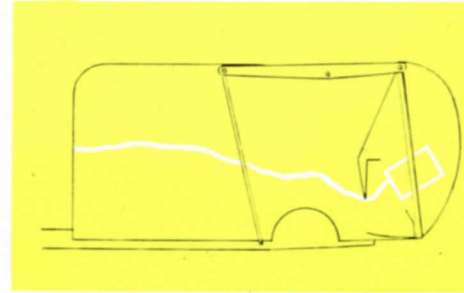
**The PENDULUM Refuse Collector mounted on a  
Morris Commercial 5-ton forward control chassis**



# CYCLE OF OPERATIONS

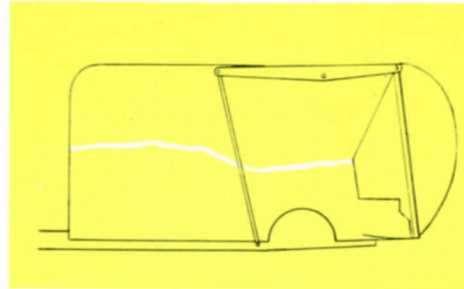
## Loading the 'Pendulum'

**A** To load, the doors in the mechanism are lifted and these lock in the 'UP' position. A safety catch is also provided as extra protection. The low loading line greatly facilitates emptying of bins, reducing operator fatigue.



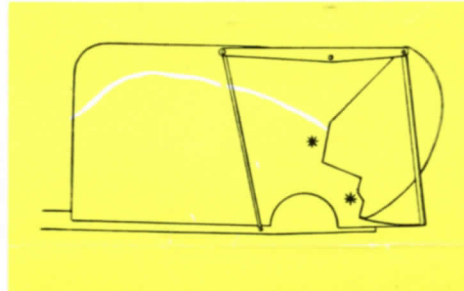
## Closed and Travelling

**B** The load emptied into the vehicle, the door is then lowered, sealing off all dust. This is also the position of the 'Pendulum' when travelling.



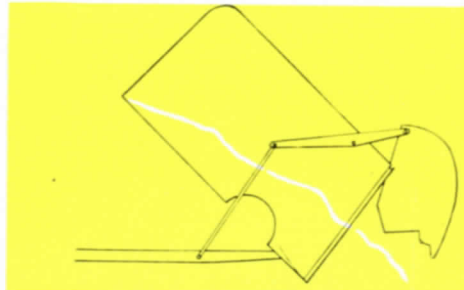
## Compressing the Load

**C** The control lever is moved and the hydraulic ram draws the pendulum barrier in, compressing the load and pushing it deep into the body. Note that the various angled surface of the pendulum barrier play a part in providing pressure at different levels. When the pendulum has swung the full distance, the control lever is operated to return the mechanism to the normal travelling position.



## Tipping the Load

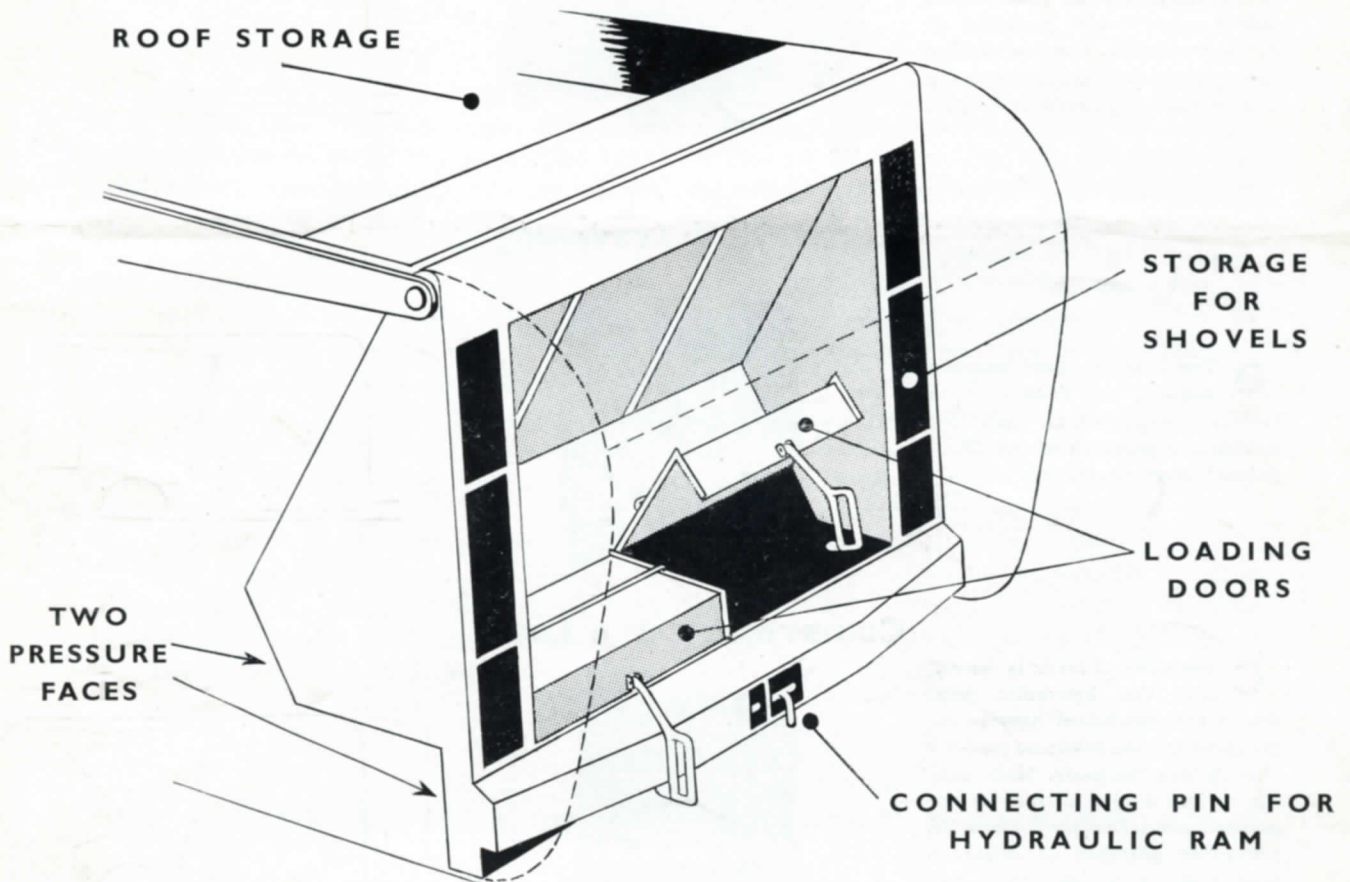
**D** The photograph clearly shows the lever arrangement which lifts the pendulum mechanism clear of the refuse. Before tipping, the quick-release pin which connects the hydraulic ram to the pendulum barrier is disengaged.



## Orders ?

One corporation has 40 'Pendulums' in service.  
We have orders for 12 and 6 etc. from others.

# CLOSE UP OF THE PENDULUM



This drawing gives a general impression of the 'Pendulum' design and shows some of the important features. Undoubtedly, the simplicity of the design, with so little to go wrong, makes the 'Pendulum' well worth investigation. We shall be pleased to receive enquiries for this vehicle and provide any additional information required.

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