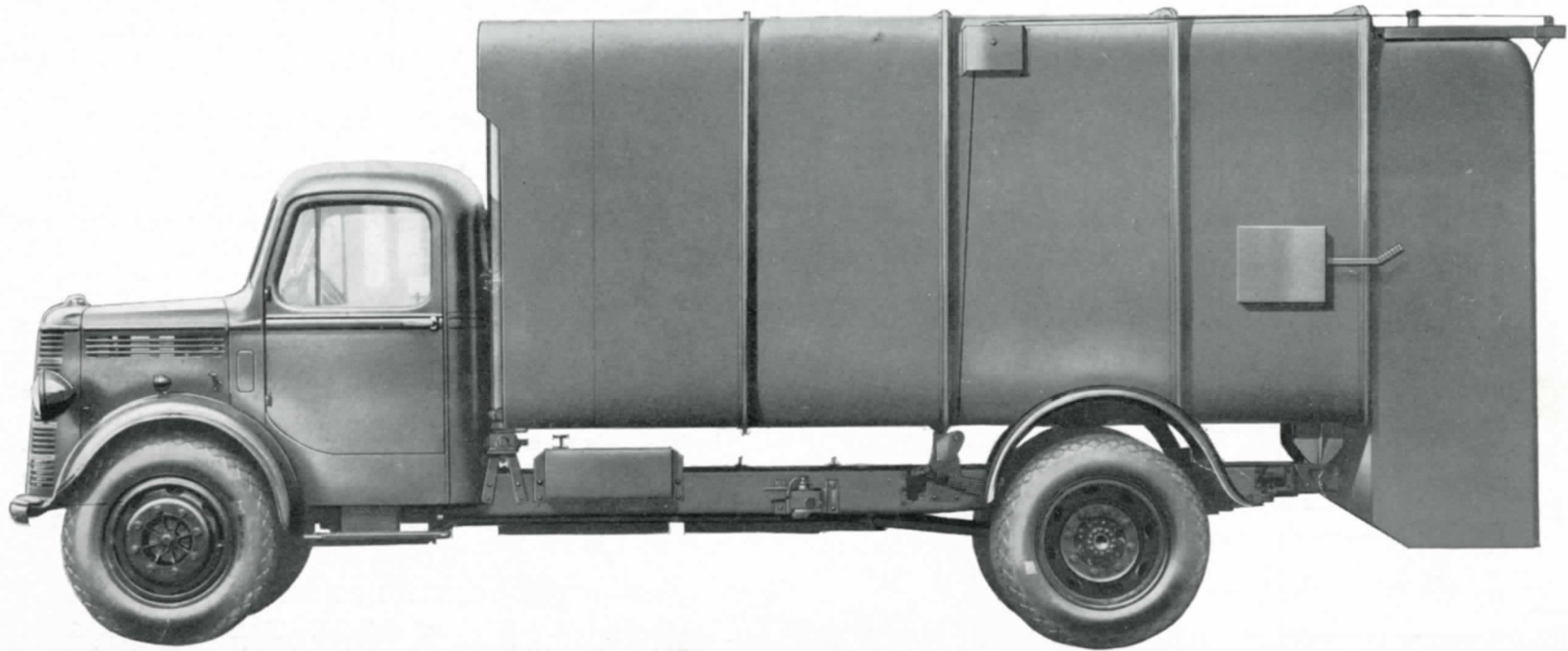


Bedford 14 cu. yd. Refuse Collector



with Scammell Essloo Self-loading Body

STAGES OF

LOADING

THE SCAMMELL ESSLOO ON THE BEDFORD 5 TON



The progressive filling of the body is illustrated by the five diagrams on the left.

Figure A shows the first stage of loading, whereby the hopper raises the refuse over the barrier.

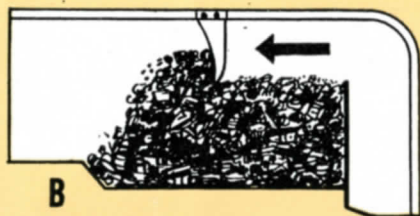


Figure B shows the second stage, wherein the hopper has carried the refuse forward to the centre of the body trimming the refuse already deposited in its travel.

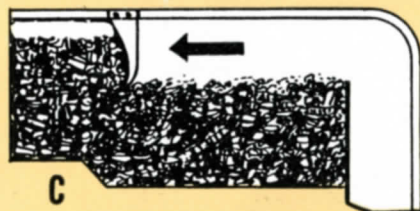


Figure C—in the third stage the filling of the bottom section of the body is completed and in the fourth stage the filling of the top section is commenced. It will be apparent that the hopper body trims the refuse.

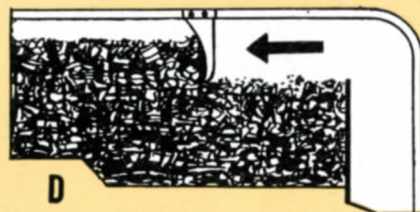


Figure D—approaching the final stage—it will be appreciated that as the hopper when fully laden weighs from 4/7 cwt., the power necessary to lift this weight is now being used for trimming.

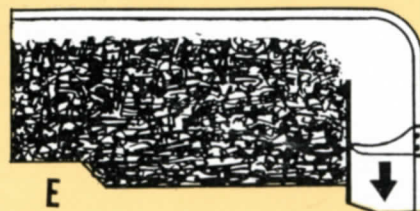


Figure E shows the sixth and last stage, and indicates collection of refuse completed.

FEATURES OF THE ESSLOO SELF-LOADING DESIGN

The Essloo has a totally enclosed body and a rear compartment which serves as a hopper chamber. The loading aperture in the rear compartment is enclosed by two half-doors; the top half door is counter-weighted and is held open by the weight of the hopper on the bottom half door. The hopper is "L" shaped and has a capacity of $\frac{1}{2}$ cubic yard.

On arrival at the loading site the top half door of the rear compartment is opened and refuse is tipped into the hopper over a conveniently low loading sill 3' 10" from the ground. When the hopper is full, the operation of a lever at the nearside of the body sets it in motion, thus causing it to rise and discharge its load in the main body as shown in the diagrams at the left. Simultaneously the top half of the rear door closes and remains closed until the empty hopper returns for a further load. Hopper movement is actuated hydraulically, power being derived from a pump driven from the power take-off on the vehicle gearbox.

When the body is filled with refuse (as shown in diagram E) the vehicle is driven to the disposal point. The body is then tipped hydraulically to an angle of 45 degrees (see diagram at right). The action of tipping the body causes the rear compartment, which is hinged at the top, to swing open to an angle of approximately 90 degrees to the body. The body tapers from front to rear both in width and height, thus ensuring a clean tip with sticky load.

POINTS IN DESIGN

Loading height only 3' 10" unladen. Thus the Essloo always provides a "drop" for the refuse, obviating the necessity of raking or trimming the load.

The action of the hopper when discharging into the body helps to compress the refuse, thus increasing the effective capacity of the vehicle.

14 cu. yd. REFUSE COLLECTOR

LONG WHEEL BASE CHASSIS

Behind the cab mounted on the nearside frame side member is an oil tank containing reserve supply for the hydraulic pump which actuates both the tipping gear and the hopper mechanism. Behind the tank is a 3-way valve, the three positions being:—

- (1) Tip up.
- (2) Tip down.
- (3) Loading (i.e. hopper actuation).

The hydraulic pump is driven from the power take-off on the vehicle gearbox and engaged by a lever in the cab.

EASE OF LOADING

All loading is done from outside the vehicle. There are no steps of any kind. The loading height is only 3' 10".

HYGIENE

As soon as the loaded hopper is set in motion the rear half doors automatically close and remain closed until the empty hopper returns for a further load. All dust is sealed in the body when the hopper discharges its load.



DIMENSIONS AND WEIGHTS

LOAD RATING: $2\frac{1}{2}/4\frac{1}{2}$ tons according to weight of refuse.

BODY DIMENSIONS: Inside body, excluding rear compartment, length 12' 0". Inside width, at front 6' 3 $\frac{1}{2}$ ", at rear 6' 8 $\frac{1}{2}$ ". Inside height 5' 9".

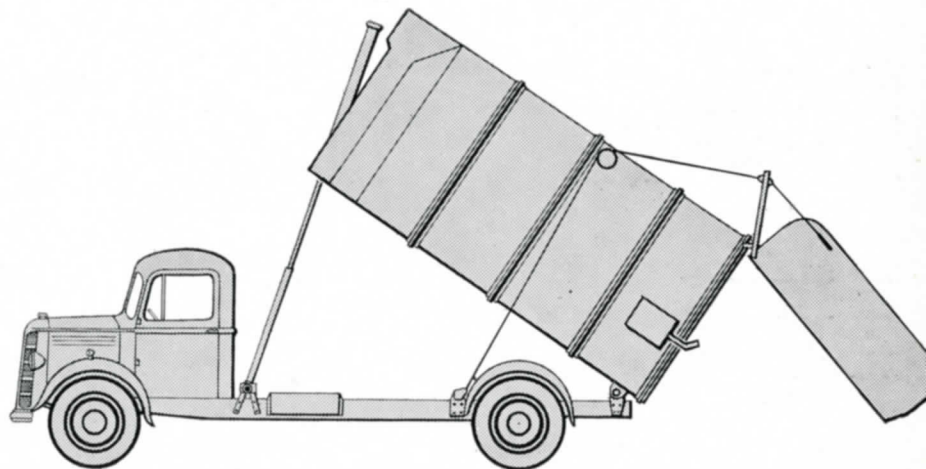
LOADING LINE: 3' 6" (laden), 3' 10" (unladen).

OVERALL DIMENSIONS: Length 22' 7". Width 7' 3". Height, unladen, 9' 3 $\frac{1}{2}$ ". Overall height, tipped, 15' 10".

WEIGHTS:

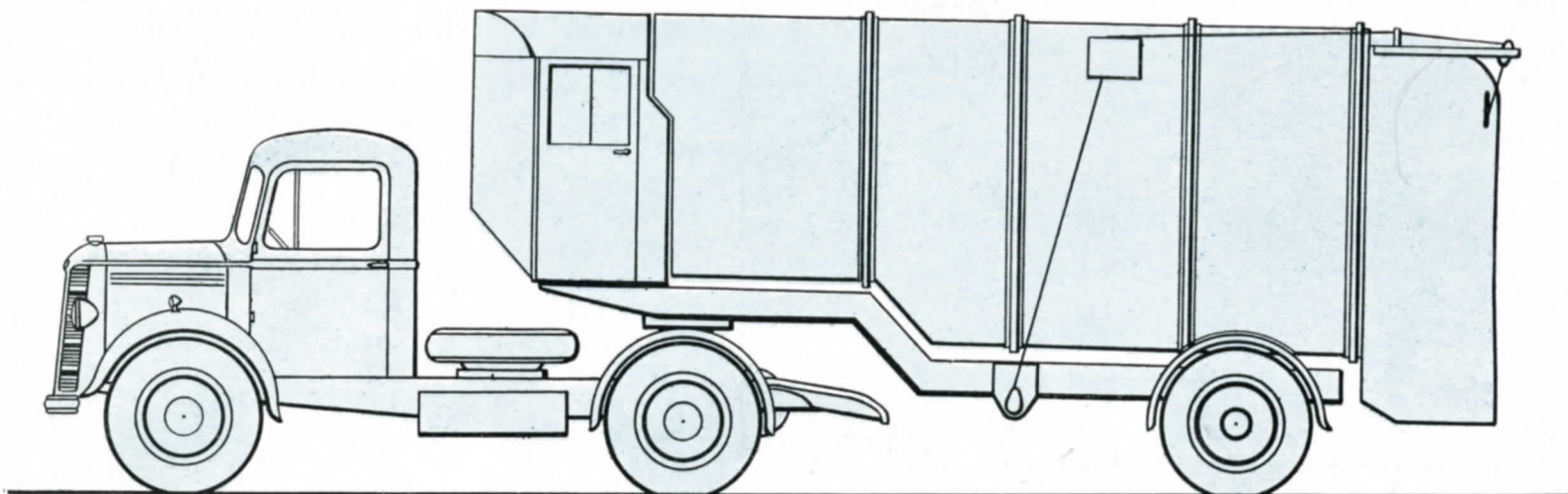
UNLADEN: Front Axle 1 ton 6 cwt.; Rear Axle 2 tons 13 $\frac{3}{4}$ cwt.; Gross 4 tons 5 $\frac{3}{4}$ cwt.

LADEN: Front Axle 1 ton 18 $\frac{3}{4}$ cwt.; Rear Axle 6 tons 1 $\frac{1}{2}$ cwt.; Gross 8 tons 0 $\frac{1}{4}$ cwt.



DISCHARGING REFUSE AT THE DISPOSAL POINT

This diagram shows the tipping operation; maximum angle of tip is 45 degrees. Note the simple cable hook-up which causes the hinged rear compartment to swing away from the main body when tipping.



**BEDFORD-SCAMMELL ARTICULATED
VEHICLE WITH 3½/5½ TON ESSLOO
REFUSE COLLECTOR BODY**

This diagram shows an articulated vehicle mounting the Scammell Essloo self-loading body. The tractor unit shown is the Bedford-Scammell which is interchangeable with the Scammell 6-ton Mechanical Horse. The body is similar to that described inside this folder, except that the interior body dimensions are slightly larger; thus the length is 12' 4", the height is 6' 0"; the widths are the same at 6' 3½" front, 6' 8½" rear. The loading line is 3' 8" unladen. Ample accommodation for loaders is provided in a compartment at the front of the body.

Bedford Municipal Vehicles are sold and Serviced through the chain of 400 authorised Bedford dealers.

The right is reserved to alter any details of price, specification or equipment without notice.

VAUXHALL MOTORS LTD., LUTON, BEDS.