

**GarWood**  
**LOAD-PACKER<sup>®</sup>**

for lowest total ownership costs...

**700**



# GarWood

# T.O.C.\*

means lower

Whether you're a municipal official interested in providing your taxpayers with the best possible refuse collection service within the lowest possible budget, or whether you're a private contractor who must watch every detail of your operation to insure a profit margin, the most important factor confronting you is the Total Ownership Costs of your equipment. We call it T.O.C. Through the years Gar Wood has lead the field with ever continuing advancements that lower Total Ownership Costs through more efficient equipment capable of doing a better job. The first fully enclosed refuse collection units, the first mechanical loaders, the first compaction bodies, are but a few of Gar Wood's contributions to the refuse collection industry. Today the Gar Wood Load-Packer 700 series is unmatched in all the factors that contribute to lowest Total Ownership Costs. The following pages tell you why Gar Wood is your best buy.

\* **TOTAL OWNERSHIP COSTS**

## 4 WAYS GAR WOOD LOWERS YOUR T.O.C.



### SPEED

Speed means your crews accomplish more work with the same effort in less time. This increased productivity means savings in equipment and labor costs. Gar Wood's 10-second cycle, just 4-second reload time, is the fastest of all packers. Gar Wood is faster at the dump, too, ejecting fast and clean in less than 25 seconds. The big, deep hopper speeds work, reduces cleanup of hopper spillage. Yes, Gar Wood is the speed leader by wide margins . . . margins that add up to big yearly T.O.C. savings.



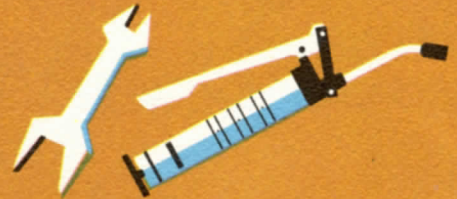
### LOADS

Your Total Ownership Cost is vitally affected by how long you can collect before unloading, how much you have packed and how much you can carry legally to the dump. Gar Wood wins all three. In test after test, the Load-Packer 700 has outpacked any of the Big Three packers. Gar Wood's more efficient and more powerful packing mechanism, now coupled with Constant Density Compaction, is the reason. In addition, Gar Wood's lighter weight and superior weight distribution keep you legal with bigger payloads.



### ECONOMY

Operational economy, of course, is a big part of Total Ownership Costs. Here Gar Wood's performance adds up to big yearly savings. The shorter cycle time and less total horsepower required means substantial savings in fuel consumption . . . you get more work for every gallon of fuel. The lighter weight and better weight distribution means lower operational cost per ton. Yes, daily operational economies result in big yearly savings in your Total Ownership Costs.

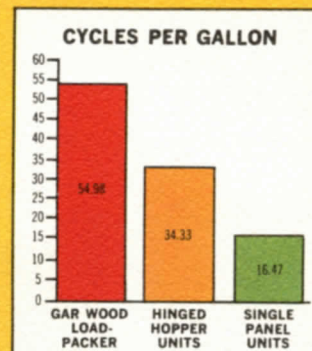
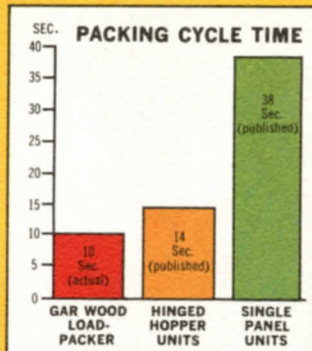
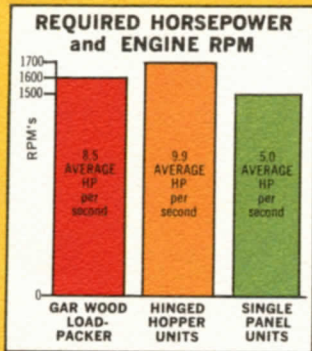
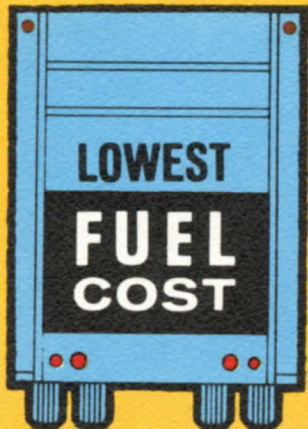


### MAINTENANCE

Nothing changes your T.O.C. picture as does your maintenance cost. Gar Wood's shorter, more efficient packing cycle means less engine wear and trouble. Superior hydraulics with lower pressure and with shorter peaking periods mean fewer problems with hoses, fittings and hydraulic components. Fewer lubrication points reduce daily service time. And if trouble does occur, Gar Wood's national distributor organization offers fast dependable service and complete parts availability. It all adds up to lower maintenance costs.



# HP and RPM + TIME = FUEL CONSUMPTION



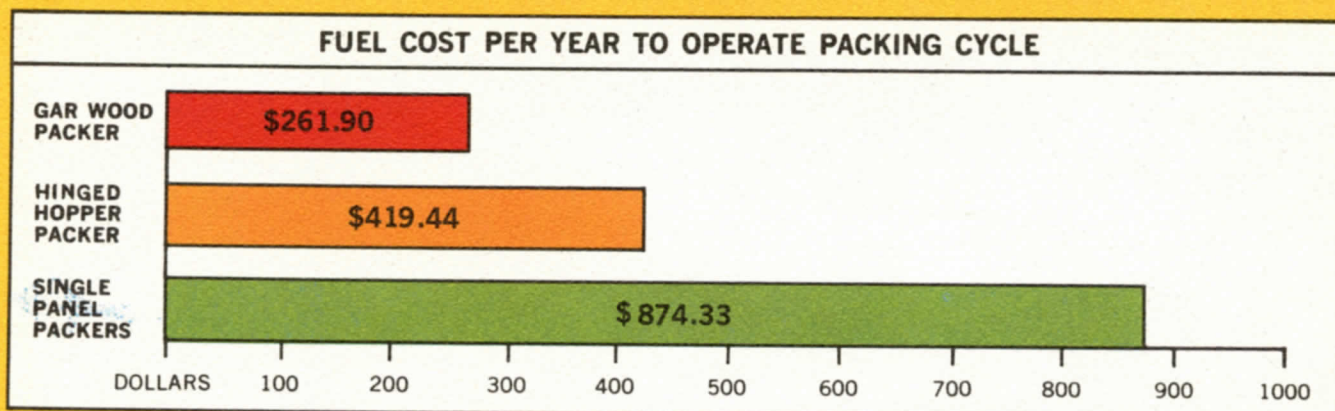
On all packers the horsepower required during a packing cycle changes during each phase of the cycle. The chart above indicates the average horsepower per second of each Packer during its complete cycle. The greater the horsepower required, the greater the fuel consumption. In addition, the rpm required to operate the pump also affects fuel consumption . . . again, the higher the rpm the greater the fuel consumption.

Now, time must be considered in computing fuel consumption. Gar Wood completes its entire packing cycle in a short 10 seconds. Notice the single panel packers use less horsepower per second, but require that horsepower and solenoid accelerated speeds approximately four times as long as Gar Wood. Obviously, the longer the cycle, the longer and harder the engine must work to do the same job.

Let's translate the first two charts into actual work per gallon, utilizing truck manufacturer's published fuel consumption figures at each rpm and established formulas of fuel consumption per horsepower. Notice Gar Wood can operate almost 55 packing cycles per gallon of gas compared to 34.33 cycles for a hinged hopper unit and only 16.47 cycles per gallon for single panel units. Proof . . . Gar Wood lowers your Total Ownership Costs.

The data in the studies above and below is based on actual units under tests, the fuel consumption of a nationally manufactured gasoline truck engine at specific rpm, accepted fuel consumption-horsepower formulas, 200 cycles per day and 240 operating days per year. Horsepower and pressure figures utilized on the charts were taken during approximately mid-point of a body load. As the body is filled toward the end of the load, all packers require greater horsepower per cycle; however, the horsepower required increases to a substantially greater degree with competitive units than with Gar Wood. For instance, at near capacity, the horsepower required almost doubles with single panel units which must simultaneously lift and pack against the load and its cycle time increases approximately 20%. Gar Wood is faster and uses less fuel from the first cycle to the last.

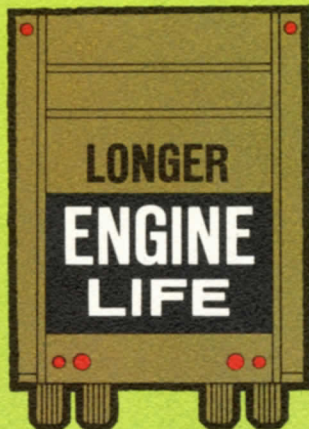
## GarWood FUEL ECONOMY MEANS LOWER T.O.C.\*



Gar Wood's faster cycle and lower total horsepower requirements add up to big yearly savings. When multiplied by the number of packers in your fleet, these savings have a substantial effect in lowering the budgeted expense for municipalities or in improving the profit picture of private refuse contractors. And remember, speed saves money by reducing non-productive time of your crews, too. Gar Wood does more work, packs bigger loads and does it at big operational savings . . . savings that based on a five year life can almost represent the cost of your next packer.



# RPM + TIME = ENGINE WEAR



	Engine Operating RPM	Time (seconds)	Engine Revolutions per cycle	Engine Revolutions for cycling per day	Additional Revolutions for cycling per day	Additional Revolutions for cycling per year
Gar Wood Load Packer	1600	10	267	53,400	—	—
Hinged Hopper Packers	1700	14	397	79,400	26,000	6,240,000
Single Panel Packers	1500	38	950	190,000	136,600	32,784,000

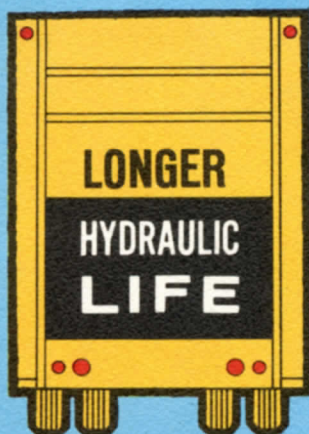
Gar Wood Cycle Uses 32 Million Fewer Engine RPM's Per Year

## Gar Wood shorter cycle time reduces engine wear

Yes, the Gar Wood Load-Packer's short packing cycle uses 32 million fewer engine rpm's per year than one major competitive unit and 6¼ million fewer rpm's than the other major competitor. Obviously excessive engine rpm's reduce the engine's life. Not only will the engine have to be replaced or overhauled sooner, there is the added cost of oil consumption, tune-ups, valve adjustment and other maintenance items.

While it is almost impossible to place a dollar value on this type of saving, it becomes readily apparent that a large savings will result through the use of a Gar Wood Load-Packer. And don't forget transmission, alternators, compressors and other components will last longer too.

# GarWood LESS WEAR MEANS LOWER T.O.C.



$$\text{PSI} + \text{TIME} = \text{WEAR}$$



The lower operating pressures found in the Gar Wood Load-Packer in conjunction with larger cylinders increase the operating life of the hydraulic components. At higher pressures smaller components are placed under great strain and excessive wear. In addition, the life of hoses, fittings and other hydraulic components is directly affected by the number and length of peaking pressures. Not only is Gar Wood pressure lower throughout the cycle, but peaking pressures last less than one second per cycle. With packers utilizing the hinged hopper principle, higher pressures are required to raise the hopper and with single panel packers peaking pressures last throughout the entire packing stroke. With the longer operating cycle, higher pressures, more frequent and longer peaking periods found on competitive units, the entire hydraulic system is subject to more wear than with Gar Wood Load-Packers.

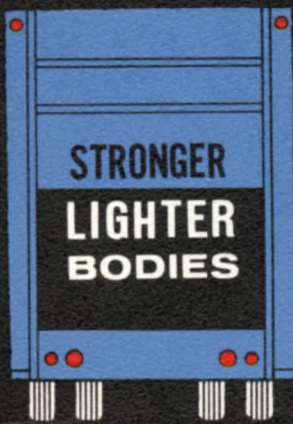
	AVERAGE MAXIMUM PACKING PRESSURE	PACKING CYLINDER BORE	PRESSURE REQUIRED TO RAISE TAILGATE	TAILGATE CYLINDER BORE
GAR WOOD LOAD-PACKER	1050	7"	1300	4"
HINGED HOPPER PACKERS	2250	5"	2000	3"
SINGLE PANEL PACKERS	1350	6¼"	1400	3"



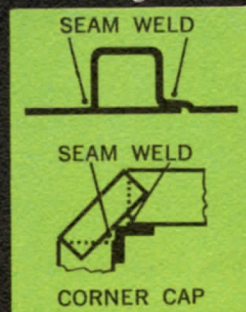
# GarWood

## LOAD-PACKER®

means  
lower **T.O.C.\***

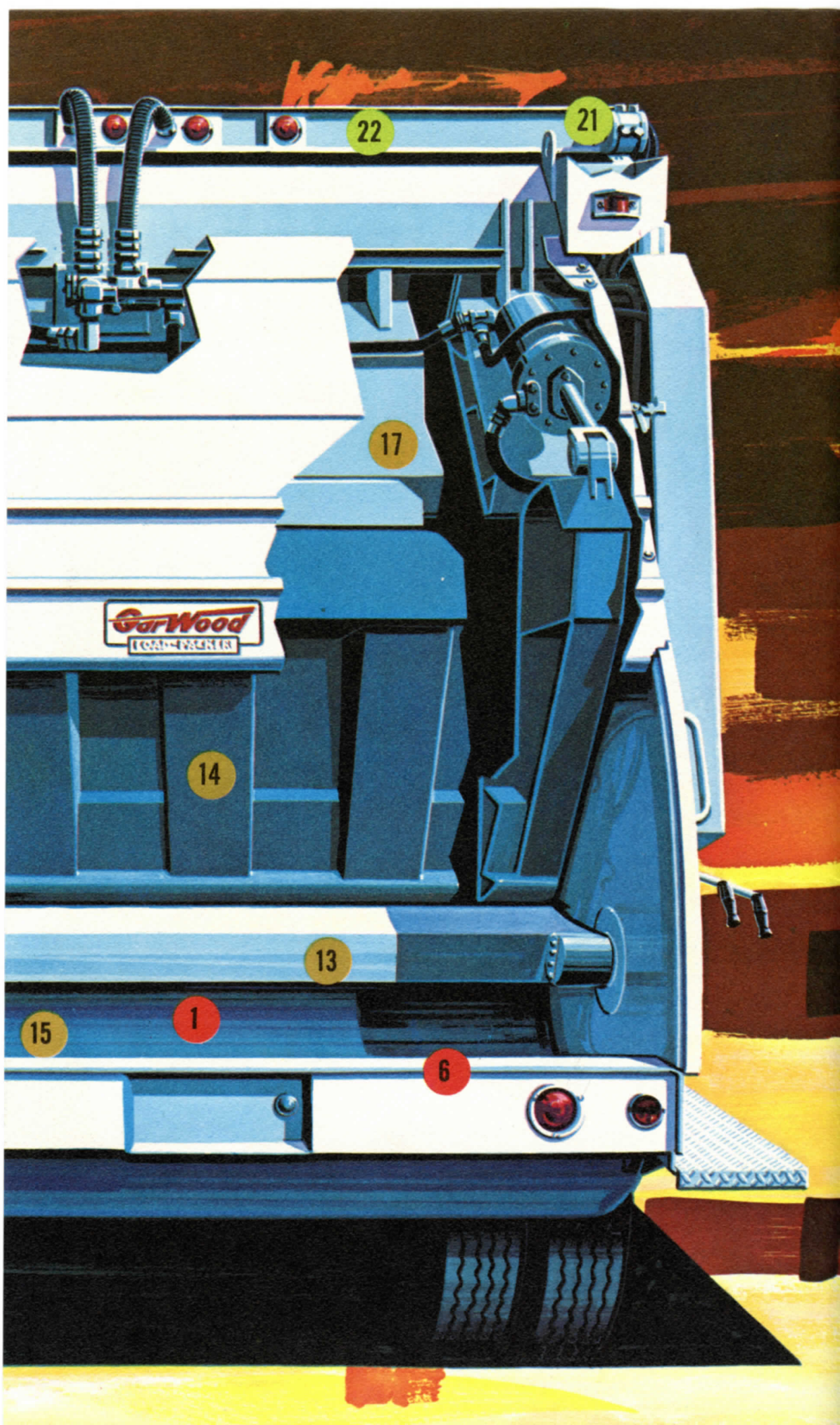


Contributing to its strength to weight ratio is Gar Wood's new Uni-Brace Body design. Body side braces are stamped into the 11 gauge hi-tensile top and side panels, then overlapped and seam welded to the next panel at both overlapped edges. Channel caps tie the stamped Uni-Braces together at each corner providing a continuous, integral band around the complete body. Sides, top and bottom are continuously seam welded. This unique construction keeps the body square . . . provides strength without dead weight . . . eliminates rust pockets inherent in separate skin and brace designs.



The Load-Packer 700 gives you the biggest legal payload of the Big Three packers. There are two reasons for this: First, Gar Wood's superior design and engineering has eliminated dead weight; strength is built in without sacrificing long life or performance ability. Second, Gar Wood design provides better weight distribution; more load is carried by the chassis front wheels. Bigger legal payloads affect your Total Ownership Costs in many ways . . . more productivity, less operating cost per ton, longer tire life; and it saves streets, reduces driveway damage and keeps you legal through all communities to the dump.





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**GarWood**  
FOOD TRUCKS

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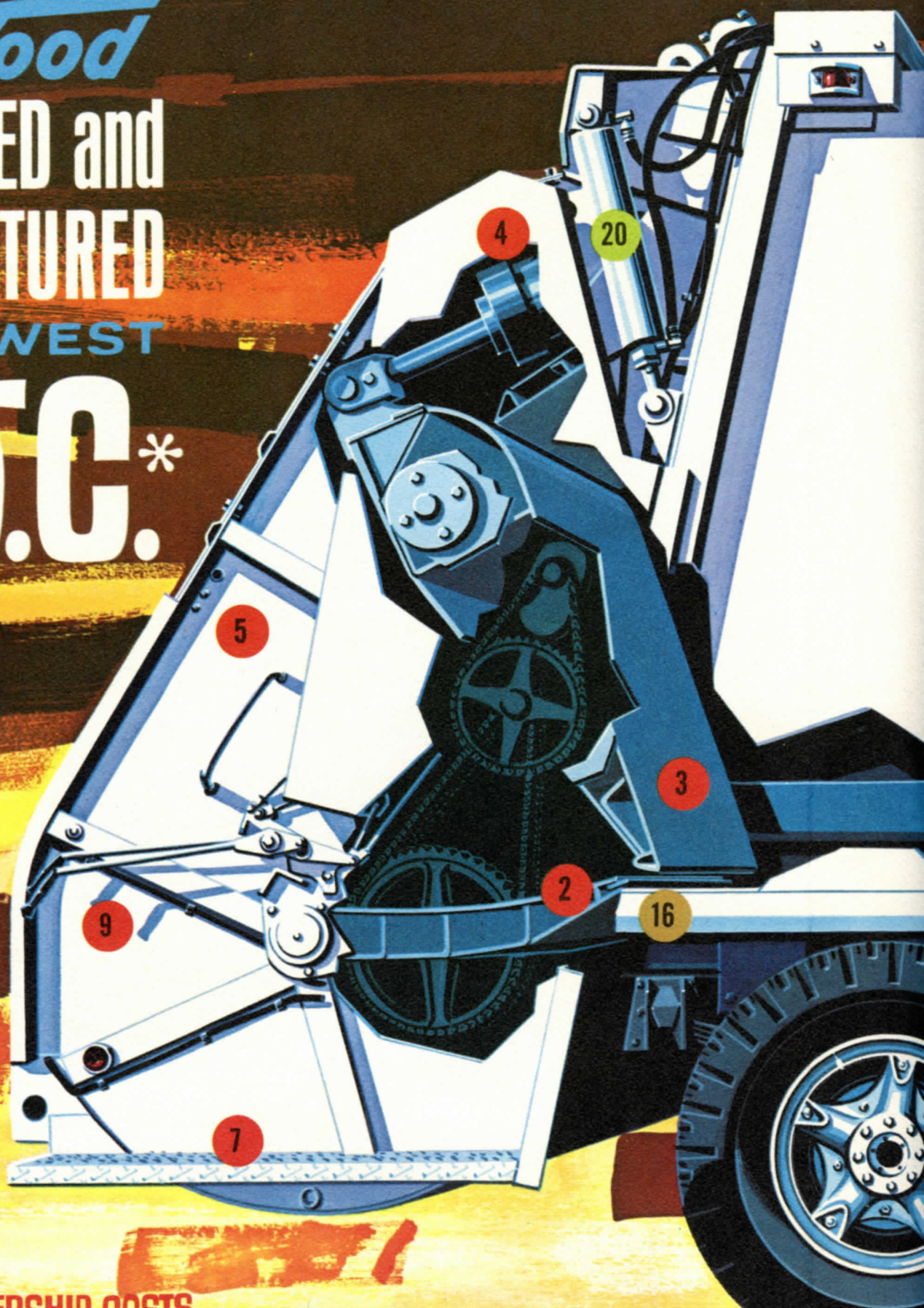


**GarWood**

**ENGINEERED and  
MANUFACTURED**

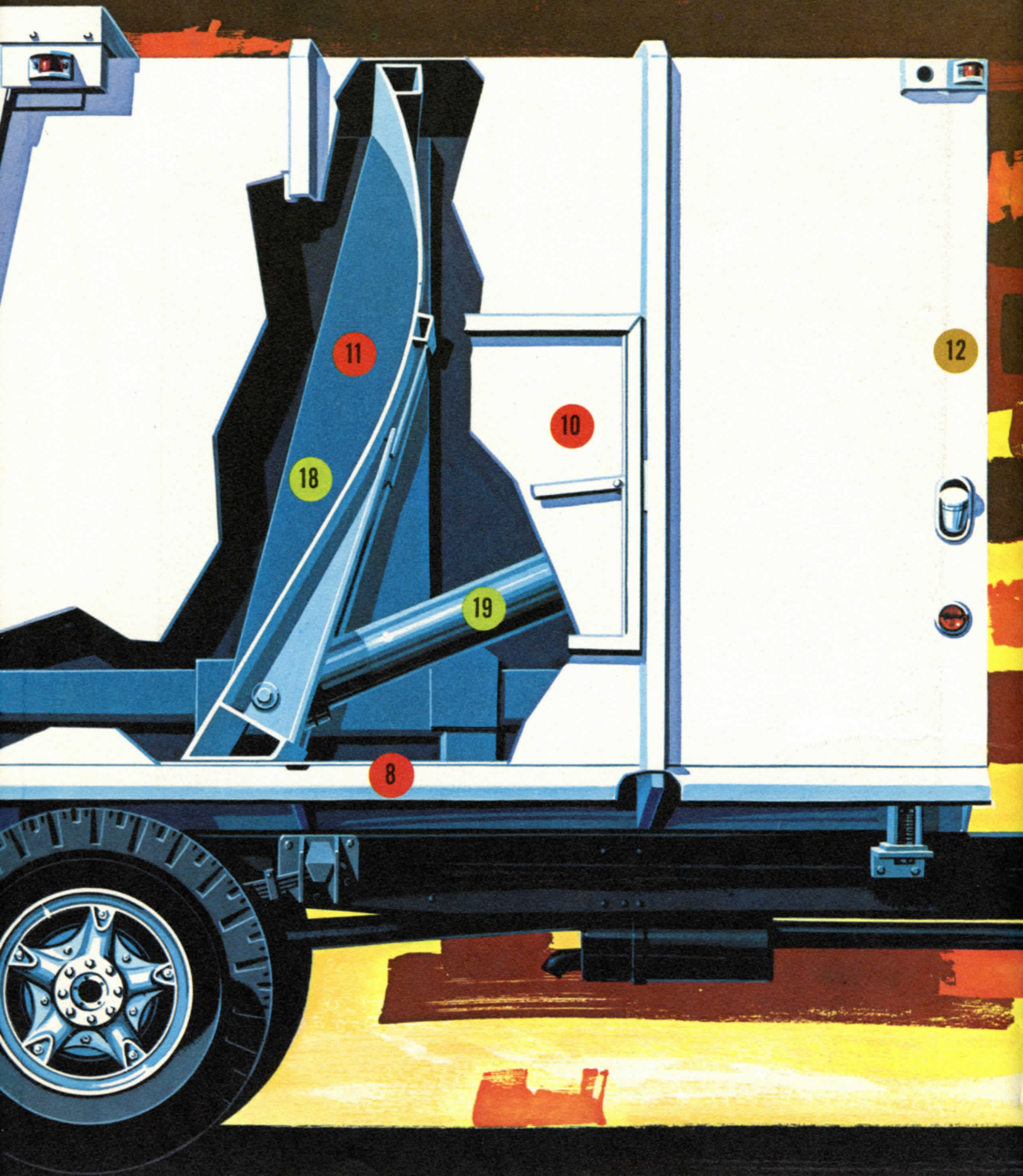
**FOR LOWEST**

**T.O.C.\***



**\* TOTAL OWNERSHIP COSTS**









Superior design principle together with engineering refinements and quality manufacture contribute to Gar Wood's lower Total Ownership Cost. ① **LOW, WIDE, HOPPER** makes loading fast, easy . . . two, even three men load at once . . . slope back design provides unlimited overhead loading clearance. ② **SWEEPER PANEL** powered by fast trouble-free hydraulic motor . . . heavy duty hubs keep panel in alignment. Clears hopper ready for reloading in just four seconds. ③ **RUGGED PACKING PANEL** fabricated for long life. Heavy duty hinges keep panel in alignment . . . there are no rollers and travel paths to clog, untrack or misalign. Entire loading and packing cycle takes only ten seconds. ④ **POWERFUL PACKING CYLINDERS** exert 81,000 pounds of force to the packing panel. Packing pressure is exerted with piston side of cylinder instead of the rod side for more effective utilization of available pressure; cylinders are not working in refuse as with single panel packers. Cylinders feature exclusive piston seal for greater efficiency and bolt-on heads for ease of service. ⑤ **BOX BRACED TAILGATE DESIGN** provides strength without dead weight. ⑥ **STURDY LOADING SILL** takes abuse . . . gives neat appearance with recessed lights, directional signals and license housing. ⑦ **FULL LENGTH RIDING STEP** has plenty of foot room, non-skid surface. ⑧ **EXTRA-DUTY HI-TENSILE** 7 gauge floor for greater strength, rigidity and longer life. ⑨ **SAFE, POSITIVE CONTROLS** that can be maintained by regular service people . . . not affected by dirt or moisture. Instant stop and reverse. ⑩ **CURB SIDE DOOR** is standard equipment. ⑪ **RUGGED EJECTOR PANEL** provides Constant Density Compaction . . . unlike competitive units, packing resistance of the ejection panel is the same from the first to the last hopper load. The smooth surface of the ejection panel with no cylinder housings together with dozer-type curvature "rolls" refuse to top and back for greatest full load compaction. Yes, Gar Wood is designed and built to reduce your Total Ownership Cost through better, more efficient operation and longer trouble-free life.

When it comes to sanitation no packer on the market today can measure up to Gar Wood. ⑫ **FULLY ENCLOSED** body front; refuse can't blow out into streets and yards . . . there's less odor. Weather and road dirt can't get in. ⑬ **SWEEPER PANEL** makes 360° rotation . . . does not retract over the load, knocking refuse into street . . . no raising hinged hopper to toss out loose refuse . . . retracting packing panel can't "top off" load as hopper raises. ⑭ **PACKING PANEL** does not retract until after sweeper panel starts its rotation . . . load is completely sealed off during the packing cycle. ⑮ **LOW, WIDE, DEEP** hopper makes loading easy, reduces spillage. Position of the sweep panel tends to protect hopper load from wind . . . there's no open clearance between tailgate sides and a hinged hopper where refuse and liquids can escape. ⑯ **LEAK PROOF** seal between body and tailgate . . . unlike hinged hopper units, there's no full width hinge point that can wear and leak. ⑰ **FULL REAR ENCLOSURE** panel extends from body top to packing panel hinge point, sealing off the load completely for greatest sanitation, less odor. Load is not exposed and can't even be seen as with single panel units. For the greatest sanitation, for less spillage and leakage, for less odor and even for a more pleasing appearance, Gar Wood can't be equaled.

Whether your disposal point is an incinerator or land fill, Gar Wood gets rid of its load faster and cleaner than any packer on the market. ⑱ **DOZER-TYPE EJECTION PANEL** pushes out load cleanly in approximately 25 seconds . . . a fraction of the time required by units with linkage. The load can't hang up or wedge between a protruding cylinder housing and the tailgate. ⑲ **TIME-PROVED GAR WOOD DOUBLE-ACTING TELESCOPIC** cylinders power ejection panel in one fast continuous thrust . . . no time consuming sequences . . . no locks or linkage to slip. ⑳ **TAILGATE CYLINDERS** raise tailgate completely above body opening. ㉑ **EXCLUSIVE BALL AND SOCKET TAILGATE HINGES** eliminate binding, insure smooth tailgate raising . . . reduce downtime and maintenance. ㉒ **FULL WIDTH HINGE CHANNEL** provides maximum strength and rigidity for land-fill dumping. Yes, Gar Wood is better on the route . . . better at the dump. Full tailgate opening, powerful, single thrust ejection and smooth, non-hang ejection panel surface gets rid of load fast . . . actually helps push the truck out of the land-fill.



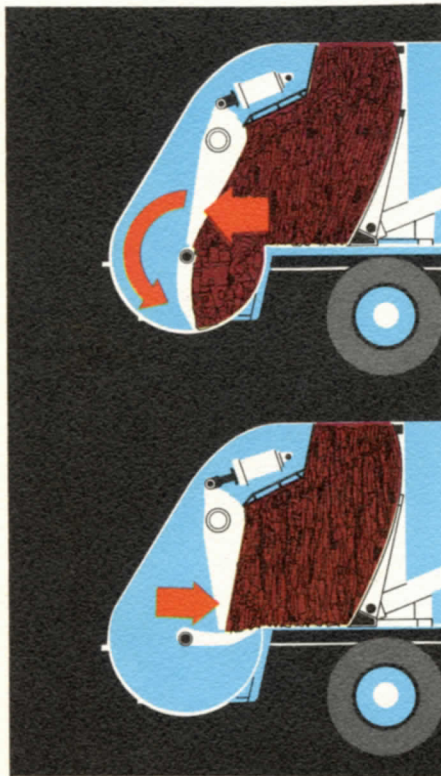


**1** Gar Wood's two panel design is the fastest, most trouble-free packing cycle on the market today. It also provides the greatest sanitation. The 10-second cycle can be easily stopped and reversed.

And by actual test Gar Wood packs bigger loads and does it with less total horsepower, less time and lower hydraulic pressures. This is because Gar Wood loads first then packs in a completely synchronized and coordinated utilization of time, power and kinematic efficiency. This proven design, coupled with Gar Wood's exclusive Constant Density Compaction insures biggest loads.

**GarWood**

**SPEED PLUS BIG LOADS MEANS LOWER T.O.C.\***



**2** After the large 1½ yard hopper is loaded, a flick of the convenient operating lever starts the completely automatic cycle. The sweep panel clears the hopper ready for reload in just four seconds as it makes its 360° rotation to the body floor. As the packing panel does not retract over the exposed load, it cannot knock refuse on to the streets as with single panel units. There's no hinged hopper that "throws" loose refuse on to the street.

Precision high torque hydraulic motor powers the sweep panel's full rotation. There is no high horsepower or peak hydraulic pressure required to raise a hinged hopper . . . no tracks and rollers that must align, can clog and untrack.

**3** The full cycle is completed and stops automatically in just 10 seconds, almost four times faster than single panel packers. Crew can start reloading in just 4 seconds without waiting the full 14 seconds required for a hinged hopper to return. The load is sealed off during the cycle. There's no way refuse or liquids can get out between the clearance of a hinged hopper and the tailgate sides . . . no hinge points to leak.

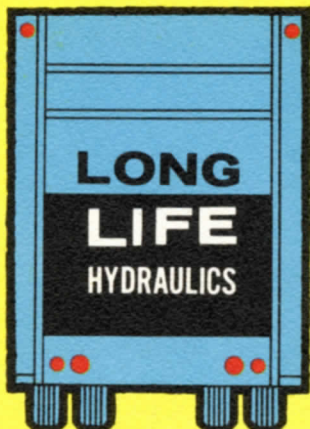
The packing panel applies all its power in a direct, level thrust into body . . . peak pressure lasts less than one second. There's no lifting and packing simultaneously utilizing high horsepower and peak pressure for extended periods as with single panel units. And there's no hinged hopper to swing down in place before reloading. Packing panel pressures control the inward movement of the ejection panel for non-varying packing resistance and retention of the density of the compacted material.

## **CONSTANT DENSITY COMPACTION... a Gar Wood Exclusive**

With Gar Wood's Constant Density Compaction, the ejection panel provides non-varying resistance against the packing action for loads of uniform high density the entire length of the body. The inward movement of the ejection panel is controlled by a pressure sensing valve actuated by the packing cylinder pressure, rather than by a relief valve on the ejection panel circuit. This Gar Wood exclusive means the resistance against the load is the same regardless of the number of stages of the telescopic hoist that are extended. With competitive units utilizing relief settings in the

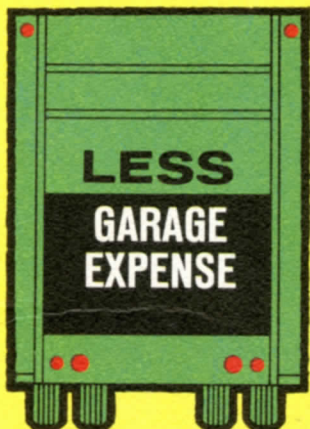
telescopic cylinder circuit, resistance pressure is considerable less when the telescopic hoist is fully extended at the beginning of the load . . . a time when packing resistance is most important. With Gar Wood, resistance against the load does not vary . . . there's no voids caused by lower resistance pressures during early loading. Retention of compacted material does not vary either . . . there's no squeeze-and-let-go. In test after test Gar Wood's superior, direct-thrust packing, together with Constant Density Compaction gets the biggest loads.





Gar Wood's hydraulic system lasts longer, can be repaired faster, and at less cost. GAR WOOD THREE-PIECE PUMP DESIGN permits straight through machining of pump body for extremely accurate tolerances. No gaskets are required, no selective fitting. Pump repairs can be made in the field . . . original factory fit and performance is assured after wear plate changes. Large, one-piece gears and shafts reduce bearing deflection due to pressures. SPOOL VALVE is a separate unit from the pump to facilitate maintenance. CYLINDERS HONED ENTIRE LENGTH for a precision fit with piston seal. All vital parts such as valve spools are chrome plated to prevent rust and corrosion, and add long life. DOUBLE-ACTING EJECTION CYLINDER features famous Gar Wood telescopic design with large overlap and outside packing nut to prevent bellmouthing; V-Chevron packing and adjustable packing nuts with set screw for position lock. Here's the finest hydraulic system of any packer . . . precision and quality which could only be manufactured by Gar Wood, hydraulic leaders for 50 years.

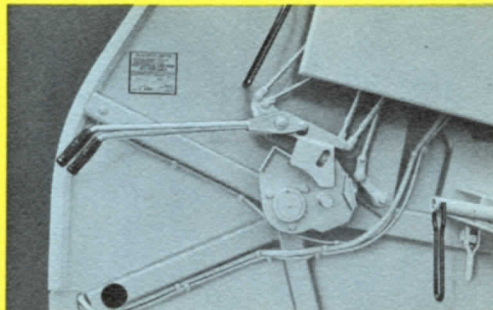
## GarWood LESS DOWN TIME MEANS LOWER T.O.C.\*



Gar Wood lowers your Total Ownership Costs through reduced service and maintenance expense. First, there are fewer moving parts, less wear points, less to go wrong. And there's less preventive maintenance, too . . . for instance, there are only 30 lubrication points, less than half that of some packers. Think of the garage time this point alone can save you over a year for just one unit. Think what it means if you operate a fleet. Every working part, every lube point is readily accessible. When parts and service are required, there's a fully-trained Gar Wood distributor near you with qualified mechanics and a full service parts stock. You save more because Gar Wood replacement parts cost less.



Gar Wood trouble-free mechanical control gives the operator safe, positive control over the packing cycle. Only one lever is required to start the automatic packing cycle. The second lever is for independent operation of the packing panel. Either lever instantly stops the packing cycle. Gar Wood simple mechanical controls are not affected by dirt, damp or inclement weather. Just as it is on the route, Gar Wood is safer and faster at the dump. One lever raises the tailgate high above the body opening. The second lever actuates the telescopic hoist for an uninterrupted ejection of the load. There are no sequences or no jockeying of the truck. The operator does not need to go beneath the tailgate to remove refuse from a cylinder housing.



\* TOTAL OWNERSHIP COSTS



# LOAD-PACKER<sup>®</sup>... FIRST AND STILL LEADERS

More cities and private contractors use Gar Wood Load-Packers than any other compaction type unit. The reason is lowest Total Ownership Costs . . . faster speed, bigger loads, lower operating costs, and less maintenance expense.

® LOAD-PACKER IS A REGISTERED TRADE-MARK OF GAR WOOD INDUSTRIES, INC.

Since 1937, when Gar Wood delivered the first hydraulic compaction refuse body, the Load-Packer has set the standards that others only follow. Gar Wood Industries is renowned throughout the world as hydraulic specialists . . . not only for the Load-Packer but also for a complete line of truck equipment, construction machinery, and revolutionary advanced hydraulically driven vehicles. Here is a company with a half century of experience in designing and building hydraulic equipment . . . one more reason why thousands look to Gar Wood for real dependability.

## BACKED BY NATION'S FINEST DISTRIBUTOR ORGANIZATION

The Gar Wood distributor organization covers the world . . . each distributor receives complete sales and service training from factory specialists . . . each has replacement parts in stock and service personnel ready to assist you. Complete attention is yours when you deal with your local Gar Wood distributor. He is an independent businessman in your area who you can depend upon.



16 YARD

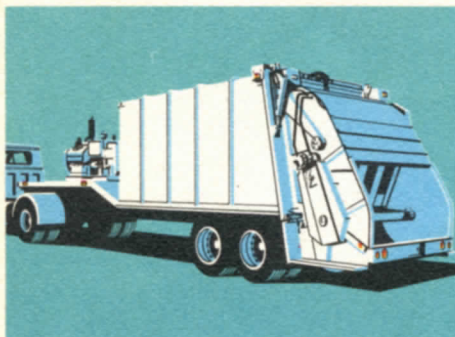
18 YARD

20 YARD

25 YARD

## A SIZE FOR EVERY COLLECTION REQUIREMENT

FOR COMPLETE SPECIFICATIONS SEE FORM 294

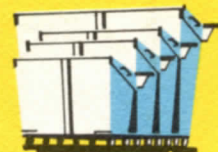


### SPECIAL TRAILER ATTACHMENTS

For special applications, Gar Wood manufactures trailer mounted Load-Packers. This 25-yard unit with auxiliary engine is used by large industrial plants, docks, and hospitals. It is ideal with container units. Gar Wood, manufacturers of a complete line of dump trailers, produces the complete units, body and trailer, providing you with one-stop service responsibility for your entire rig.

### CONTAINER SYSTEM

A complete line of container systems is available for the Gar Wood Load-Packer in sizes from one to five cubic yard capacity with hydraulic load-lift attachment for one and two yard containers or overhead hydraulic winch loading mechanism for all container sizes. For complete details on Gar Wood container system, see Form W-295.



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Specifications Subject to Change Without Notice.

FORM NO. 293

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