

BURROUGHS COMPANIES

3626 INDUSTRIAL BLVD. • LAUREL, MISSISSIPPI 39440
601-649-3062 • 1-877-628-2668
burroughscompanies.com

May 28, 2019

City of Laurel

We are pleased to provide you with a quote for your upcoming truck purchase. We are quoting you the following vehicle:

2020 Western Star 4700 (Detroit Engine) with Pac Mac Body - \$188,281.00
3 Year Buyback.....\$87,000.00

****Buyback Included Next Page****

Again, we appreciate the opportunity to provide you with a quote and look forward to doing business with you.

Thanks:

Will Burroughs

Burroughs Diesel, Inc.

Burroughs Buyback Terms & Conditions

ENGINE

Engine must be original engine produced in truck.

Engine must operate at a minimum of 80% of the original manufacturer's rated horsepower after allowing for driveline losses and as verified by a chassis dynamometer test.

Engine must be mechanically sound and within the manufacturer's specifications with regard to oil pressure, coolant temperature and pressure, and fuel and rail pressures. There must be no compression in the cooling system.

Engine must have no oil or coolant leaks and fluids must be free from contamination.

EMC must retain mileage information and be cleared of all passwords. All emissions, including but not limited to, Diesel Particulate Filters, EGR valves, EGR coolers, must function properly and pass industry test and inspection.

When equipped, all 2008 and newer trucks must have a fully functional particulate filter capable of regeneration at normal factory internals.

Engine crankcase blow-by must not exceed: (Measured in inches of water column)

•Detroit 4 inches

The engine air compressor must not exceed the manufacturer's maximum tolerances for oil blow-by (oil blown into the air system).

Batteries, starter, alternator and other ignition system components must be in sound condition. Batteries must be original CCA rating, cases intact with no dead cells and capable of starting the truck unassisted.

Air conditioning compressor must be operational. System must be free from defect, and blow cold air.

*Any specifications not meet above, must be corrected at Burroughs Diesel, by Burroughs Diesel, when said vehicle is returned for purchase with the buyback price being deducted from the cost of repairs.

DRIVETRAIN

Clutch, transmission and front and rear axles must be roadworthy and free from defects with no visible bends, cracks or fluid leaks.

The clutch and clutch brake must be in adjustment or must be replaced if it cannot be adjusted to within acceptable tolerances.

The driveline must be free of noise, vibration and excessive free-play in u-joints.

No wheel or pinion seals are to be leaking.

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BRAKES

Brakes linings are to be no less than 1/2 inch on front and rear axles and pass DOT standards.

Brake drums must be free from breaks or cracks and cannot be worn in excess of a 1/16 inch groove.

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TIRES

Steer: Matched original casings. Minimum 12/32-inch tread depth (measured at the lowest point).

Drive: Identically matched block/lug type tread on all drive tires. Minimum 12/32-inch tread depth (measured at the lowest point). Recaps are acceptable for the drive tires but they must be first-time caps (casings must not be over 7 years old).

Tires must have sound casings free of cuts, bulges or gouges and there must be no irregular tread wear (dishing, cupping, edging, feathered, etc.).

FRAME

Frame rails, cross members, fifth wheel, cab mounts/supports, spring/air suspension hangers and other structural systems must be free from cracks, improper welds and defects, and excessive rust.

All pins and bushings must be free of play and within DOT published tolerances.

Frames that have been stretched, improperly repaired, welded or otherwise altered are not acceptable.

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CAB / BODY

Paint and/or body damage must not exceed \$500.00 total per unit including, but not limited to, the bumper, grill, fuel tanks, fairings, dents, rust damage, etc.

All decals, permits, unit numbers and other customer ID must be removed (including truck bodies) and done so in such a manner as to not damage the paint. Scratches to the paint as a result of the de-ID process will be considered paint damage as defined above. All standard and optional equipment such as the radio and power accessories must be intact and fully operational. Auxiliary equipment (such as APU's and Smartstarts) must be mechanically sound and function as designed. If they have been removed, all alterations must be repaired to original equipment standards.

Upholstery must have no tears or open seams. Holes (burns, punctures, etc.) through the fabric (padding exposed) must be repaired or replaced. There must be no scratched, broken, chipped, or cracked glass (windshield, windows or mirrors), and no "bull's-eyes". Glass may be repaired ILO replaced if the repair is not visible to the naked eye.

Dash panels and interior trim pieces must not be missing and must be free from holes, cracks and breaks.

All instruments, gauges and control panels must be in operating condition with no missing knobs or switches and no broken glass.

All attached body equipment with hydraulic components must be in good working order and free of fluid leaks. (cylinder, fittings, etc.)

*Any specifications not meet above, must be corrected at Burroughs Diesel, by Burroughs Diesel, when said vehicle is returned for purchase with the buyback price being deducted the cost of repairs.

GENERAL

Bodies such as dump, refuse, flatbed, etc, etc must be free from defects and perform as originally designed for by the manufacturer.

Physical damage to the body and components must not exceed \$500.00.

Any unit that has been wrecked must be declared at the onset of the return process and any wreck damage is subject to reappraisal.

Units must pass Federal DOT inspection and be able to go into service without repair.

We reserve the right to reject any unit(s) that has/have not been repaired in accordance with acceptable standards of workmanship.

Van and truck bodies that are not the same year model as their chassis must be specifically identified.

Vehicles must have a minimum of thirty (30) gallons of fuel at the time they are surrendered to Burroughs Diesel.

*Any specifications not meet above, must be corrected at Burroughs Diesel, by Burroughs Diesel, when said vehicle is returned for purchase with the buyback price being deducted the cost of repairs.

DOCUMENTS & RECORDS

Transferor (owner) must certify that to the best of their knowledge, the odometer readings on the vehicles accurately reflect the actual miles for each unit unless otherwise noted and properly documented.

Payment for the vehicles will not be made until clear titles/ownerships, free and clear of all liens and encumbrances are received.

HOL-MAC CORPORATION WARRANTY POLICY

Hol-Mac Corp. (Pac-Mac ®) warrants each Hol-Mac product it manufactures and each new part and component sold by Hol-Mac to be free of defects in material and workmanship, provided the parts and components are operated and maintained in accordance with Hol-Mac published operating and maintenance instructions applicable thereto. This warranty is subject to the terms and conditions stated below.

Warrantor: This warranty is granted by Hol-Mac Corporation, P.O. Box 349, Bay Springs, Mississippi 39422. All warranty work must be accomplished by Hol-Mac at its factory in Bay Springs, Mississippi, or by such other facility specifically authorized by Hol-Mac. All warranty work performed by a facility other than Hol-Mac must be approved by Hol-Mac in writing prior to commencement of said work.

Duration of Warranty: The time periods applicable to the warranty of the specified component parts of the Hol-Mac products are as follows:

Major Structural Component Parts – 1 year
Non-Hydraulic Replacement Parts – 1 year

Exclusion and Disclaimers: This warranty does not extend to normal maintenance services such as cleaning, greasing, mechanical adjustments and maintenance inspections or to any defect due to the negligence of others, failure to operate or maintain the product in accordance with the published operating and maintenance instructions furnished by Hol-Mac, unreasonable use, accidents, alterations or wear and tear. Hol-Mac also reserves the right to make changes in the design or material of its products without incurring obligation to incorporate such changes in any product previously manufactured.

Procedure for Obtaining Performance Under this Warranty: In order to qualify under this warranty, the owner must notify Hol-Mac within (45) days of discovery of the defect and promptly deliver the entire product or defective part to Hol-Mac at its factory in Bay Springs, MS, or if requested by Hol-Mac to such other authorized facility designated by Hol-Mac. Upon receipt of such product, part or component, if it is found not to be defective in material or workmanship, Hol-Mac shall notify the owner of such fact and request instructions for the return of such product, part or component to the owner. All costs of transporting Hol-Mac products to and from the Hol-Mac factory, or such other authorized facility designated by Hol-Mac, shall be paid by the owner.

[NO OTHER WARRANTY, WHETHER OF FITNESS OR OTHERWISE, EXPRESSED OR IMPLIED, IN FACT OR BY LAW, IS GIVEN BY HOL-MAC WITH RESPECT TO ANY NEW PRODUCT, PART OR COMPONENT, OR WITH RESPECT TO ANY WORK AND NO OTHER OR FURTHER OBLIGATION OR LIABILITY SHALL BE INCURRED BY HOL-MAC BY REASON OF THE MANUFACTURE, SALE, OR LEASE OF ANY PRODUCT, PART, OR COMPONENT OR OF ITS USE, WHETHER FOR BREACH OF WARRANTY, NEGLIGENCE OF MANUFACTURE OR OTHERWISE.]

**PAC-MAC MODEL RLX-25
SPECIFICATION**

Truck-mounted, 25 cubic yard rear loader body.

The unit will be used in collection and loading of residential or commercial refuse. This specification describes a hydraulically actuated packer body of the rear loading type with the following minimum specifications necessary to perform the work assigned.

UNIT WILL BE MANUFACTURED IN AN ISO 9001:2000 CERTIFIED FACILITY.

The body shall conform to the latest ANSI Z245 specification as well as the Federal Motor Vehicle Safety Standard FMVSS-108 at the time of manufacture. All proposals include delivery, training of operators and service personnel.

1. The minimum capacity of the body shall be 25 cubic yards exclusive of the hopper.
2. The minimum capacity of the hopper shall be 3.61 cubic yards without the use of a hopper loading sill extension.
3. The body shall be designed to allow high density compaction of up to 1000 lbs. per cubic yard of household refuse.
4. The unit shall be manufactured in an ISO 9001:2000 certified facility.

BODY DIMENSIONS

1. The maximum overall width shall be 96 inches.
2. The maximum overall length shall be 284 inches.
3. The maximum height above the chassis frame shall be 98" inches.
4. The inside width of the body shall be 85 inches at the widest point.
5. The inside height of the body shall be 84 inches at the highest point.
6. The minimum weight of the body and the tailgate (less special options) shall be 13,300 lbs.

BODY CONSTRUCTION

1. The body shall have a smooth floor without a trough. No cylinders, valves or other hydraulic components shall be exposed to refuse packed to the body. Floors with trough or depression are not acceptable.
2. The body floor, sides and roof shall be designed and constructed to withstand maximum imposed force residential refuse without structural

damage or excessive wear.

3. The body sides shall be fabricated from 10 gauge 80,000 psi yield steel and be of a curved one-piece design.
4. The body roof shall be fabricated from 10 gauge 80,000 psi yield steel and be of a curved one-piece design.
5. A 39" x 29" body side door shall be located on the driver's side. The door shall be held shut by a spring-loaded latch.
6. The body floor shall be fabricated from a single sheet of 7 gauge hi-tensile steel, with no depression or trough.
7. The body longitudinal shall be 8" tall structural channel.
8. The floor cross members shall be tapered from the long sill outboard to the body side sheet.
9. The floor cross members shall be fabricated from 7 gauge hi-tensile steel.

TAILGATE DIMENSIONS

1. The minimum hopper opening shall be 80" wide and 56" high to permit unobstructed loading of the tailgate hopper.
2. The top of the loading sill shall be equal height to the top of chassis frame to facilitate easy loading.
3. The overall height above the chassis frame with tailgate raised shall be 167 inches.

4. The length of the tailgate shall be 75"

TAILGATE CONSTRUCTION

1. The lower tailgate sides shall be fabricated from ASTM A-514 steel w/ minimum hardness of 321 BHN.
2. The hopper floor and chute shall be fabricated from 1/4" ASTM A-514 steel w/ minimum hardness of 321 BHN.
3. The tailgate sides shall be reinforced with hi-tensile steel channels interlaced and fully welded to the side sheets.
4. The hopper and chute floor shall be reinforced with hi-tensile steel channels.
5. The tailgate shall be secured to the body with tailgate lock bars made of ASTM A-514 steel. The tailgate locks shall operate automatically when the tailgate is raised or lowered.
6. The tailgate seal shall extend a minimum 24 inches up the body side.
7. Two grab handles shall be located on each side of the tailgate.
8. The rear steps shall be fabricated from open grip material with a minimum standing surface of 380 square inches per step. The steps shall comply with A.N.S.I. standards. Steps shall be of a bolt-on design.

PACKING MECHANISM

1. The packing cycle shall be controlled by a two-lever control that allows the operator to start, stop and reverse the direction of any function at any point during the packing cycle.
2. The tailgate control valve shall be located within the tailgate. It shall be a sectional valve.

3. The packing mechanism shall consist of two primary components: the slide and the packer (sweep) blade.
 - A. The packing mechanism shall be mounted on four wear shoe assemblies utilizing UHMW poly wear shoes. The shoes shall be replaceable without removing the slide assembly from the tailgate.

The packer and slide shall be hinged by two 3" diameter alloy steel pins.
These pins shall also support the (2) lower wear shoe assemblies.
 - B. The slide face shall be constructed from 3/16" ASTM A-514 steel w/ minimum hardness of 321 BHN.
 - C. The packer blade shall be mounted to, and pivot on, the slide.
The packer blade shall be fabricated from hi-tensile steel plate, of varying thickness from 10 ga. to 1/2"
 - D. The packer shall have replaceable heat treated bushings in the pivots.

The face sheet shall be 3/16" ASTM A-514 steel w/ minimum hardness of 321 BHN.
4. The packing mechanism shall be powered by two 4 1/2" bore cushioned hydraulic cylinders .
5. The slide mechanism shall be powered by two 5" Bore cushioned hydraulic cylinders
6. The slide and packer cylinders shall have hardened, chrome plated rods. Each cylinder shall have replaceable heat treated bushings.
7. The packing blades shall operate

in a minimum 20 second cycle time with a minimum 3 second reload time.

8. The compaction cycle shall interrupt above the hopper sill.
9. Material in the hopper shall be compacted between the packing mechanism and the ejector panel. The ejector panel shall hold pressure against the compacted material and will automatically drift forward by a hydraulic load control valve without operator assistance.
10. The packer blade (sweep) assembly shall be protected by a secondary relief valve that is integral to the tailgate-mounted control valve.

EJECTION SYSTEM

1. The load shall be ejected by a double acting, telescopic hydraulic cylinder that shall extend and retract the ejector panel the full length of the body without the use of clamp bars or related hardware.
2. The ejector cylinder shall have replaceable heat treated bushings. The cylinder shall have the following dimensions:

Body size	Bore	Stroke	Stages
25 cu. yd.	6.5"	127"	3

3. The ejector panel shall have a 10 gauge hi-tensile steel face sheet that is reinforced by structural steel tubing and formed channels of high tensile steel.
4. The ejector panel shall be mounted on 8 high-density polyethylene wear shoes that shall be replaceable without removing the ejector panel from the body. Metallic shoes are not acceptable.
5. The ejector panel shall be guided in the body by two guide tracks located

on the body sides 4" above the body floor. The tracks shall be 5 3/4" deep, fabricated from hi-tensile steel and fully welded to the body sides.

6. The ejector cylinder shall be mounted angularly to the body floor and not require a trough or depression in the floor.

CONTROLS

1. The ejector and tailgate lift controls shall be mounted at the left front of the body.
2. Ejector and tailgate controls shall be mounted directly to the valve spool.
3. A throttle advance switch shall be located convenient to the ejector and tailgate lift controls.
4. The tailgate controls shall be located at the right rear of the tailgate. The two-lever design shall have positive control of movement of the packing mechanism at all times. The tailgate controls shall comply with the applicable A.N.S.I. regulations.
5. An automatic throttle advance device shall be incorporated with the tailgate controls.

HYDRAULIC SYSTEM

1. The hydraulic pump shall be a fixed displacement rated at no less than 2500 psi working pressure and have sufficient capacity to equal 35-38 GPM flow at a reasonable engine RPM
2. The hydraulic pump shall be a direct mount to a transmission-driven clutch-activated hot shift PTO or driven by the engine crankshaft.

3. For extended life of all hydraulic components the maximum operating pressure shall not exceed 2500 PSI.
4. The hydraulic system shall incorporate an adjustable relief in the body valve.
5. Hydraulic hoses and tubes shall be secured by clamps as required to prevent damage from abrasion and vibration. Hydraulic hoses and tubes shall use S.A.E. O-ring boss and JIC 37 degree flare ends for zero leaks.
6. Hydraulic hoses shall comply with the applicable S.A.E. standards for the designed specifications.
7. Hydraulic hoses are to have a 4:1 burst to working pressure safety factor.
8. The hydraulic oil reservoir shall have a minimum capacity of 50 gallons. The reservoir shall be equipped with filler, breather cap, sight glass, clean out cover, 100 mesh suction filter, magnetic tank drain plug and gate valve at the suction outlet. The hydraulic reservoir shall not be a structural member of the body or the mount for the ejector cylinder.
9. A 10 micron Inline Return line filter shall be located on the hydraulic tank and be equipped with a condition indicator.
10. A suction screen filter of 100 mesh (141 micron) shall strain all the oil leaving the tank. Suction filter shall be equipped with a 5 P.S.I. bypass valve.
11. All hydraulic valves shall be sectional in order to allow replacement of defective sections

without replacement of the entire valve.

12. All cylinders and valves shall have SAE O-ring boss ports.
13. Hydraulic system shall meet an ISO cleanliness standard of 20/18/13
14. Manufacturer shall provide printed ISO hydraulic cleanliness record.

HYDRAULIC CYLINDERS

1. All cylinders shall have a working pressure rating of 3000 psi.
2. The packer and slide cylinders shall have hard chrome plated rods.
5. The packer and slide cylinders shall carry a minimum one year warranty.
6. Tailgate cylinders shall have hardened chrome plated cylinder rods, and be equipped with restrictors to limit the speed of raising and lowering of the tailgate.
7. Telescopic cylinders shall have chrome plated cylinder sleeves and plungers.
8. All cylinders are to operate without direct contact with the compacted load.

ELECTRICAL

1. All electrical wiring shall be color coded and be protected by loom.
2. Electrical harnesses shall be connected with weatherproof automotive-grade electrical connectors.
3. Electrical wires shall be stranded

copper type with a SXL covering to remain flexible and resist to deterioration.

4. Electrical wires shall be color coded and numbered for easy identification.
5. Body electrical system shall be protected with its own fuse block.
6. All fuses shall be ATO type.
7. All limit switches shall be water proof to prevent damage from the elements and pressure washing.
8. All lighting shall comply with F.M.V.S.S. #108, with an additional set of two stop, tail and turn lights mounted above the hopper on a light bar.
9. Clearance, backup, stop and directional lights shall be rubber grommet mounted with sealed light housings, lexan lenses, vibration resistant filaments, and unitized sealed quick change connections.
10. A 112 Db backup alarm conforming to current standards must be provided. The alarm must also sound when the tailgate is open.
11. Conspicuity tape shall be applied per ANSI Z245 requirements.

PAINTING

1. All burrs and rough areas are to be ground smooth and all welds cleaned to remove slag.
2. Prior to application of any coating, all surfaces shall be thoroughly cleaned and conditioned with a phosphate solution.
3. The body shall then be coated with two (2) coats of a self etching epoxy primer.

4. Two finish coats of polyurethane Enamel shall be applied to produce a high gloss finish.

Warranty

1. One year warranty on the entire unit.
2. "On-Site" warranty service.
3. Additional warranties available upon request OR QUOTED.

ADDITIONAL OPTIONAL FEATURES

1. A rear vision camera system shall be provided and include 7"LCD flat screen monitor in cab.
2. Work lights
3. Smart light system with dual front and rear strobes.
5. An Emergency PTO Stop will be located on the rear of the body. (now standard)
6. Operators and Parts manuals shall be provided on CD and paper copy. (standard)
7. Dual rotary actuated cart tippers shall be mounted on rear load sill with handles mounted curbside and street side.

RLX SERIES

TECHNICAL DATA AND SPECIFICATIONS

MODEL

	RLX18	RLX20	RLX20 "BRUTAL"	RLX25	RLX25 "BRUTAL"
Capacity	18 yd ³	20 yd ³	20 yd ³	25 yd ³	25 yd ³
Hopper capacity	3.61 yd ³	3.61 yd ³	3.61 yd ³	3.61 yd ³	3.61 yd ³
Body weight (body shell only)	4,779 lb	5,118 lb	5,118 lb	5,885 lb	5,885 lb
Body weight (complete unit, less options)	12,700 lb	13,000 lb	13,000 lb	14,000 lb	14,000 lb
Hopper inside width	80"	80"	80"	80"	80"

BODY SPECIFICATIONS

	RLX18	RLX20	RLX20 "BRUTAL"	RLX25	RLX25 "BRUTAL"
Sidewalls (curved shell)	10 ga 80,000 PSI	10 ga 80,000 PSI	10 ga 80,000 PSI	10 ga 80,000 PSI	10 ga 80,000 PSI
Floor (single sheet, flat)	3/16" high tensile steel	3/16" high tensile steel	3/16" high tensile steel	3/16" high tensile steel	3/16" high tensile steel
Roof (curved shell)	10 ga 80,000 PSI	10 ga 80,000 PSI	10 ga 80,000 PSI	10 ga 80,000 PSI	10 ga 80,000 PSI
Ejection panel face	10 ga 80,000 PSI	10 ga 80,000 PSI	10 ga 80,000 PSI	10 ga 80,000 PSI	10 ga 80,000 PSI
Hopper	1/4" 100,000 PSI (T-1)	1/4" 100,000 PSI (T-1)	1/4" 100,000 PSI (T-1)	1/4" 100,000 PSI (T-1)	1/4" 100,000 PSI (T-1)
Packer panel face	1/4" 100,000 PSI (T-1)	1/4" 100,000 PSI (T-1)	1/4" 100,000 PSI (T-1)	1/4" 100,000 PSI (T-1)	1/4" 100,000 PSI (T-1)
Slide panel face	3/16" T-1 steel	3/16" T-1 steel	3/16" T-1 steel	3/16" T-1 steel	3/16" T-1 steel
Hopper sides	3/16" T-1 steel (lower tailgate); 10 ga 80 ksi steel (upper tailgate)	3/16" T-1 steel (lower tailgate); 10 ga 80 ksi steel (upper tailgate)	3/16" T-1 steel (lower tailgate); 10 ga 80 ksi steel (upper tailgate)	3/16" T-1 steel (lower tailgate); 10 ga 80 ksi steel (upper tailgate)	3/16" T-1 steel (lower tailgate); 10 ga 80 ksi steel (upper tailgate)

HYDRAULIC SYSTEM

	RLX18	RLX20	RLX20 "BRUTAL"	RLX25	RLX25 "BRUTAL"
Cylinders	-	-	-	-	-
Ejector	(1) 2-stage 5.5" bore	(1) 2-stage 5.5" bore	(1) 2-stage 5.5" bore	(1) 3-stage 6.5" bore	(1) 3-stage 6.5" bore
Tailgate	(2) 3" bore; 1.75" rod; 38" stroke	(2) 3" bore; 1.75" rod; 38" stroke	(2) 3" bore; 1.75" rod; 38" stroke	(2) 3" bore; 1.75" rod; 38" stroke	(2) 3" bore; 1.75" rod; 38" stroke
Slide	(2) 5" bore; 4" rod; 25" stroke	(2) 5" bore; 4" rod; 25" stroke	(2) 5.5" bore; 4.5" rod; 25" stroke	(2) 5" bore; 4" rod; 25" stroke	(2) 5.5" bore; 4.5" rod; 25" stroke
Packer	(2) 4.5" bore; 3.5" rod; 24.38" stroke	(2) 4.5" bore; 3.5" rod; 24.38" stroke	(2) 4.5" bore; 3.5" rod; 24.38" stroke	(2) 4.5" bore; 3.5" rod; 24.38" stroke	(2) 5" bore; 3.5" rod; 24.38" stroke
Valves	-	-	-	-	-
Shutoff	Ball	Ball	Ball	Ball	Ball
Packing controls	Sectional spool	Sectional spool	Sectional spool	Sectional spool	Sectional spool
Ejector/tailgate raise	Sectional spool	Sectional spool	Sectional spool	Sectional spool	Sectional spool
Operating pressure in PSI	2,500	2,500	2,500	2,500	2,500
Maximum operating pressure	2,750	2,750	2,750	2,750	2,750
Gallons per minute (GPM)	35-38 GPM	35-38 GPM	35-38 GPM	35-38 GPM	35-38 GPM
Reservoir	50 gal.	50 gal.	50 gal.	50 gal.	50 gal.
Packing cycle time	-	-	-	-	-
Complete	17-19 sec	17-19 sec	24 sec	17-19 sec	24 sec
Reload	3 sec	3 sec	4 sec	3 sec	4 sec
Compaction rate in lb/yd	800+	800+	1000+	900+	1000+

CHASSIS REQUIREMENTS

	RLX18	RLX20	RLX20 "BRUTAL"	RLX25	RLX25 "BRUTAL"
Minimum GVWR	41,000 lb	43,000 lb	43,000 lb	54,000 lb	54,000 lb
Minimum GAWR	-	-	-	-	-
Front axle	12,000	12,000	12,000	14,000	14,000
Rear axle	29,000	31,000	31,000	40,000	40,000
Usable CA (+/- 2 in)	136"	148-152"	148-152"	N/A	N/A
Minimum after frame	40"	40"	40"	57"	57"

STANDARD FEATURES

- ▶ One piece flat floor
- ▶ Curved shell body
- ▶ Fast cycle time
- ▶ Meets or exceeds ANSI standards
- ▶ Wide open accessibility for cleaning and maintenance
- ▶ Automatic latches and integrated tailgate props
- ▶ The industry's highest standard for hydraulic cleanliness
- ▶ LED lighting, weatherproof connections and braided loom
- ▶ Dual Amber oval rear strobes
- ▶ Heat-treated pins and replaceable bushings throughout
- ▶ Large access door with safety interlock
- ▶ Emergency stop on curb side
- ▶ Driver alert buttons on both sides
- ▶ Sectional valves

OPTIONAL EQUIPMENT

- ▶ Single or dual cart tipplers
- ▶ Reaving system: 12K cylinder / 15K cylinder
- ▶ Kick bar and container latches (38" minimum chassis height only)
- ▶ Front-mounted pump
- ▶ Amber or clear beacon rear strobes (single or dual)
- ▶ Amber oval flush mount strobes (front and/or rear)
- ▶ Smart light strobe system (may be combined with amber ovals)
- ▶ Rear vision camera
- ▶ Work lights over hopper and tailgate sides
- ▶ Frame mounted water cooler
- ▶ Frame mounted tool box
- ▶ Emergency stop on street side
- ▶ Pressure gauge

All design, specifications, and components are subject to change at the manufacturer's sole discretion at any time without notice. Data published herein is for information purposes only and shall not be construed to warrant suitability of the unit for any particular purpose, as performance may vary with the conditions encountered. The only warranty is our standard written warranty for this product at the time of shipment.



HOL-MAC CORPORATION
P.O. BOX 349, BAY SPRINGS, MS 39422
601-764-4121

**City of Laurel, Mississippi
Public Works Department
Bid Specifications for
25 Cu. Yd. Garbage Truck**

INTENT:

This specification describes a hydraulically actuated packer body and chassis of the rear loading type with the following minimum specifications necessary to perform the work assigned. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and dispensing the load by means of hydraulically ejecting the load from the body.

GENERAL TERMS:

This equipment shall be manufactured in the United States of America. All equipment furnished under this contract shall be new, unused and the same as the manufacturer's current production model. Accessories not specifically mentioned herein, but necessary to furnish complete unit ready for use, shall also be included. Unit shall conform to the best practice known to the body trade in design, quality of material and workmanship. Assemblies, sub-assemblies and component parts shall be standard and interchangeable throughout the entire quantity of units, as specified in this invitation to bid. Bidders are to quote only their top-of-the-line commercial grade equipment. Bids on lesser industry models will be rejected. Bids with equipment not meeting these minimum capacities and requirements will be subject to rejection. The complete unit shall be delivered to the City of Laurel, MS Public Works Department no later than August 30.

It shall be the bidder's responsibility to carefully examine each item of the specification. Failure to offer a completed bid or failure to respond to each section of the technical specification (COMPLY: YES or NO) will cause the proposal to be rejected without review as "non-responsive". All variances, exceptions and/or deviations shall be fully described in the appropriate section.

GUARANTEE:

The body shall be covered by a twenty-four (24) month warranty.

The transmission warranty shall be for three years or better. (Include a Copy of Warranty Statement)

PARTS MANUAL:

Bidder shall furnish a complete parts, maintenance, and operator's manual with each truck and garbage body sold.

SERVICE AVAILABILITY:

Successful bidder must have factory authorized full service capabilities within 50 miles of Laurel, MS.

EVALUATION:

Evaluation of the bids to determine the best and lowest shall include: the proximity of the bidder for warranty work; the delivery time; the value of the equipment above the minimum required; the lowest bid and all other factors relevant to this request.

NOTICE:

The City of Laurel reserves the right to reject any and all bids.

City of Laurel
Minimum Specifications for a New 25 Cubic Yard
High Compaction Rear Loading Garbage Truck

All bidders must fill in all blanks: YES, if meeting or exceeding specification; NO, if exceptions are taken to a certain specification. Any exceptions taken must be explained in detailed writing on bidders own letterhead and attached to the bid submitted. Bidder must attach a copy of warranty on chassis, drive train, and components.

CAPACITY

The packer body shall have a capacity, excluding the receiving hopper of not less than 25 cubic yards.

YES

The hopper shall have a capacity of three and ninety-four hundredths (3.94) cubic yards.

3.61

The structural integrity of the body shall allow high density loading of up to 1,000 pounds per cubic yard of normal refuse.

YES

BODY DIMENSIONS

Maximum width, outside 96".

YES

Maximum overall length of the body and tailgate combined shall not exceed the following: 270".

284 "

Body width, inside 89".

85 "

Body height, inside 79".

83.5 "

Body height, outside (above chassis) 96".

98 "

BODY CONSTRUCTION

The body interior shall have a smooth floor without a trough. The sides and roof shall also be smooth. (No Exception).

YES

The body shall have a street side access door to allow entrance to body for service.

YES

In order to prevent damage from corrosion and fire, no hydraulic cylinders, valve or other hydraulic components shall come in contact with refuse packed into the body.

YES

4.5" X 8.38" Body sides & roof shall be of curved stress skin construction interfacing with the 12" X 12" FORMED CHANNEL
 FORMED PLATE corner mainframe bolsters. Rear bolsters shall be 5" x 20" formed channel @ the
 INBOARD OF major upper & lower connecting points of the mainframe. Front bolster shall be a
 SKIN. 5" x 8" formed channel @ the major upper & lower connecting points. All sidewall
 and roof members shall be continuous welded. YES CONTINUOUS WELDED MEETS THE INTENT

Body roof shall be minimum 8 gauge, 80,000 PSI minimum yield hi-tensile steel
 sheet, fully welded to a full length 11 gauge 50,000 PSI yield roof crown rail to
 contain and dissipate forces equally through the body structure. ALL 10 GA 80,000 PSI

Body sides shall be minimum 8 gauge, 80,000 PSI minimum yield high tensile 10 GA 80,000 PSI
 steel sheet, fully welded to roof crown rail and to a 4.7" x 18" floor skirt rail. 6" X 11" SKIRT RAIL

Rear mainframe body side bolsters shall be a minimum 3" x 20" and contoured
 shaped to sidewall with minimum 7 gauge 80,000 PSI minimum yield. 4.5" X 8"
 Reinforcement bolsters shall be full welded to the curved body side sheets. 1/4" 50,000 PSI

Body floor shall be flat full width and must not have inboard guide rails or a trough.
 Floor shall be a minimum 7 gauge, 80,000 PSI minimum yield steel sheet. 3/16" 50,000 PSI

Floor longitudinals (long members) shall be a formed trapezoidal shape 9.6"x11"
 with a 3.3" base sill of 7 gauge, 80,000 PSI minimum yield formed steel channels 8" STRUCTURAL
 and shall be continuous welded to the floor sheet. C CHANNEL

Floor cross members shall be 3"x6"x7 gauge, 80,000 PSI minimum yield steel 7" X 9" 3/16 50,000 PSI
 channels. Cross members shall be interfaced through the long members on FULLY INTERFACED W/LONG
 approximately 18" centers to fully support the floor. Cross members shall be full MEMBERS
 width, single piece. (No Exceptions).

TAILGATE DIMENSIONS

Maximum overall width at the hopper opening shall be 84 1/2". 88"

Inside tailgate loading width shall be a minimum of 80". YES

Hopper opening height shall be a minimum of 55". YES

Loading sill height below chassis rail shall be 3.8" exclusive of any container
 handling mechanisms. EQUAL TO CHASSIS

Minimum overall height above the chassis frame with the tailgate raised: 207 1/2". 166"

TAILGATE CONSTRUCTION

Tailgate sides shall be single piece 3/16" 150,000 PSI minimum yield 321 BHN YES HOPPER AREA
 abrasion resistant plate steel.

Tailgate side reinforcement shall consist of 6"x 1 7/8" 11 gauge, 50,000 PSI formed steel channels fully welded to the perimeter edge of the tailgate side sheets. An interlaced network of 6"x 1 7/8" gauge, 50,000 PSI and 6 5/8"x 1 7/8" 7 gauge, 80,000 PSI minimum yield formed steel channels shall also be fully welded to the tailgate side for superior support.

MEETS THE INTENT
10 GA 80,000 PSI
AND 1/4" 50,000
PSI FOR SUPERIOR
SUPPORT.

Hopper floor shall be minimum 1/4" 150,000 PSI minimum yield 321 BHN abrasion resistant steel plate.

YES

Hopper floor lateral reinforcement shall consist of a 3/16" 80,000 PSI minimum yield formed "Z" channel cross member. Forward hopper reinforcements shall be provided by a lateral network of 3/16" 80,000 PSI and 3/8" 50,000 PSI minimum yield formed steel channel cross members.

MEETS THE INTENT
3/8" CHANNEL, PLUS
5/16" 50,000 PSI
FORMED "DOUBLE L"
CROSS MEMBERS.

Hopper front compaction face shall be minimum 5/16" 150,000 PSI minimum yield 321 BHN abrasion resistant steel plate.

YES

Tailgate shall be equipped with heavy duty 1" diameter turnbuckles, one on each side of body, to secure the tailgate in the closed position against the body to prevent leakage.

AUTO LATCHES

Two (2) grab handles (3/4" hot rolled steel bar) shall be located on each side of the tailgate for operator safety and comfort. One handle is to be mounted horizontally no less than 49" above the riding step. The other shall be mounted in the vertical plane, with the bottom edge no less than 44" above the steps. The latter shall also be attached to the rearward face of the perimeter of the tailgate reinforcement. (If unit is equipped with a container handling attachment, the latter will be omitted.)

YES

The rear step shall be bolt-on design fabricated from 12 gauge, 3 diamond Grip Strut, slip resistant, self-cleaning material. Located on each side of the tailgate, they shall provide for a minimum of 396 square inches of footing area for a single rider. The steps must conform to ANSI standards.

YES

The tailgate shall be raised with two (2) single acting 4" bore x 26" stroke hydraulic cylinders. The cylinders shall incorporate an integral orifice, which will limit the descent speed of the tailgate in the event of hydraulic failure.

YES, INTEGRAL ORIFICE
3" BORE, 38" STROKE.

The tailgate shall be equipped with one piece, removable rubber gasket. The gasket, which shall have a durometer rating of 35-45 and tensile strength of 1500-1800 PSI shall extend across the entire bottom width of the tailgate and provide for watertight seal vertically up the side for no less than 21".

YES

The hopper shall be formed from 3/16", 80,000 PSI high tensile steel.

HOPPER SILL IS 2" X 4" X 3/8"
WALL TUBE

The rear hopper area shall be equipped with a tailgate-to-driver buzzer system installed on both the curbside and street side of the hopper.

YES

PACKING MECHANISM

Packing cycle control shall be mechanical, lever operated on the right hand side of the tailgate. A two lever design, the operator shall have the capability to start, stop, and Reverse the direction of any function at any time throughout the packing cycle. YES

Packing mechanism control valve shall be centrally located within the upper confines Of the hopper, under upper light cross members. MOUNTED RIGHT SIDE OF UPPER CONFINE

The packing cycle time shall be no greater than 17-19 seconds. YES

Packing mechanism shall consist of two primary structures, the upper packing Panel and the packing blade. YES

UPPER PACKING PANEL

The upper packing panel shall be mounted to the tailgate weldment with two (2) sets of upper and lower link arms. Each upper link arm shall be secured to the panel and tailgate with two (2) 2" diameter induction hardened C-1045 cold drawn steel pins. The lower link arms shall be connected to the tailgate with 2" diameter induction hardened C-1045 pins and to the panel with 2 5/16" heat treated, induction hardened 4340 cold rolled steel hinge pins. NO LINKS, UPPER PANEL SLIDES

The upper packing panel shall be constructed from 3/16" 150,000 PSI minimum yield, 321 BHN abrasion resistant steel plate in all areas of refuse contact. The packing blade hinge lugs shall be constructed from 3" thick 50,000 PSI minimum yield steel plate. YES, 3/16" 150,000 PSI. MEETS INTENT WITH DIFFERENT DESIGN.

Primary compaction by the upper panel shall be accomplished with two (2) double 2-5" x 26" acting 5" bore x 36" stroke hydraulic cylinders. Located outside of the hopper confines, the cylinders shall produce a minimum force of 73,600 pounds. LOCATED INBOARD ABOVE HOPPER AREA MIN. FORCE = 94,000 LB.

Forward hinged side doors on each side of the tailgate shall provide access to the outside cylinders. The doors shall be easily opened without hand tools. The side doors shall prevent operator contact with the packing mechanism components as well as protect the components from the outside elements. DESIGNED TO NOT REQUIRE DOORS TO COVER CYLINDERS

PACKING BLADE

The packing blade shall be mounted to and pivot on the upper panel hinge lugs with heat treated, induction hardened ASTM 4340 cold rolled 3" steel pins. YES

The packing blade shall be constructed with 3/16" 150,000 PSI minimum yield, 321 BHN, abrasion resistant steel plate and capable of resisting shearing and breaking forces of large objects during the compacting cycle. 1/4" 150,000" PSI YES

Pre-compaction by the packing blade shall be accomplished with two (2) double acting, 5 1/2" bore x 24" stroke cushioned hydraulic cylinders. Located inside the hopper confines, the packing blade cylinders shall produce a minimum force of 111,670 pounds (33.25 PSI).

2-4 1/2" X 24"
43 PSI

All packing mechanism links shall have replaceable hardened steel bushings for extended service life. Wear shoes or roller shall not be acceptable in high compaction packing systems.

UHMW SHOES

All cylinder and link pivot pins shall be kept in place with minimum Grade 5 retaining bolts, lock nuts, and lock collars.

YES

Each hopper full of material shall be compressed between the packing blade, upper panel and ejector panel. The ejector panel shall be automatically advanced by an ejector unload valve. No operator attention shall be required to advance the ejector panel as the body fills.

YES

The packing mechanism shall be equipped with an "automatic crowd" pressure sensing device, which will enable the packing mechanism to find a path through the load which will neither stall the mechanism nor damage the structure thereby prolonging the hopper floor and mechanism life.

YES

DISCHARGE OF LOAD

The load shall be discharged by means of a positive ejection system. A double acting, telescopic hydraulic cylinder shall extend and retract the ejector panel the full length of the body. The ejector cylinder shall attach to the body and the ejector panel via cold-drawn, C1045, pins having a minimum diameter of 1 1/2" and positioned diagonally to minimize possible damage from objectionable liquids.

YES

The ejector cylinder shall have the following dimensional characteristics:

STAGES

4

3

BORE

6"

6.5"

STROKE

134.1"

124"

The ejector panel face sheet shall be constructed from 11 gauge hi-tensile steel. Four (4) hi-tensile formed steel channels shall span horizontally, with one (1) trapezoidal cross member at floor level. The vertical panel corner posts shall be 0.375 hi-tensile steel. A 7 gauge hi-tensile steel protective covering shall be provided to keep refuse from coming in contact with the ejector cylinder.

MEETS THE INTENT
W/10GA 80,000 PSI
AND 4" SQ. TUBE
7 GA COVER

The ejector panel shall extend and retract without the assistance of clamp bars or associated hardware.

YES

Smooth movement of the ejector panel in the body shall be achieved with two (2) cast alloy shoes on each side of the ejector panel. Shoe castings shall conform to specification 28C358-A0201 possessing a minimum contact surface of 18 square inches each shoe side and having a minimum hardness of 260 BHN. Each shoe shall pivot on a minimum 2" diameter, C1045, removable cold drawn stub pin held within the fully boxed 4"x12" base frame of the ejector panel. Four (4) shoes shall be provided for each ejector panel and shoes must be replaceable without removing the ejector panel as refuse is packed against it.

MEETS THE INTENT
UHMW SHOES IN A FIXED
CHANNEL.

Ejector guide bottom edge shall be located .375" above longitudinal floor corners. The guide channel shall have interior dimensions of 3.5"x 4.2". The top flange of the guide channel shall be reinforced with a 45 degree plate, which shall also serve as a self-cleaning device. The track shall also minimize pivotal movement of the ejector panel as refuse is packed against it. Plastic (non-metallic) ejector shoe material is not acceptable.

FORMED RAIL 5" X 5"
6" ABOVE FLOOR

The rod end of the ejector cylinder shall be pin mounted at the front of the body to the main lateral bolster of the body longitudinal members thus affording maximum resisting bending movement.

MEETS THE INTENT
WITH A VERTICAL
MEMBER FOR THE SAME
PURPOSE.

CONTROLS

The ejector panel and tailgate raise controls shall be mounted outside the body on the front left hand side of the body. Direct connection of the control handles to the valve spool shall exist to minimize moving parts and allow for ease of service.

YES

An electrical device shall be supplied to automatically raise the engine speed to the proper RPM during the packing cycle.

YES

An additional throttle advance switch shall be located at the front left hand side of the body within hands reach of the ejector and tailgate raise controls.

YES

Power take off controls shall be conveniently mounted in the cab, preferably to right side of the driver.

YES

HYDRAULIC SYSTEM

Front bumper mounted, crankshaft driven gear pump, producing 42 GPM @ 1200 RPM, and rated at 3000 PSI.

YES OR HOT SHIFT

Air actuated dry valve, controlled by in-cab switch, with electronic over speed protection shall be provided. Chassis must be equipped with Allison World Tech RDS transmission.

YES

- The pump must run quietly. Gearing shall be selected for minimum engine RPM compatible with recommended pump RPM for correct operating pressure and rates of flow for the refuse body. YES
- The hydraulic pump shall be designated to operate continuously with peak loading at frequent, short intervals. YES
- The hydraulic system shall incorporate adjustable relief valves to protect all components from excessive pressure and overloads. YES
- All hydraulic tubes will be securely clamped to prevent vibration, abrasion, and excessive noise. YES
- All hydraulic tubes running the length of the body shall be routed over the roof on the street side bias of the body. YES
- All hydraulic hoses shall conform to S.A.E. standard for designed pressure. Bends shall not be less than recommended by S.A.E. standards. Flat spots in hoses will not be acceptable. YES
- All high-pressure hoses shall be sheathed with fabric protective covering. YES
- The hydraulic oil reservoir shall be frame mounted underneath the body and shall have a gross capacity of 50 gallons filled with hydraulic fluid. YES, MOUNTED TO FT. OF BODY
- The tank shall be complete with a screened fill pipe and cap, filter breather, clean out cover, level & temperature sight gauge, and shut off valve. YES
- The hydraulic system shall be protected by a five (5) micron return line filter along with a 100 mesh (140 micron) reusable oil strainer in the suction line. YES
- The return line filter shall also include an in-cab filter by-pass monitor, which shall alert the operator or service personnel when the filter is in need of replacement. YES- GAUGES VISIBLE THROUGH BACK WINDOW
- All multi-spool control valves shall be of a section design such that servicing would not require replacement of the entire valve assembly. YES

HYDRAULIC CYLINDERS

- All cylinders must have a working pressure rating of no less than 2500 PSI YES
- Inside packing cylinders must be of the internal cushion design so that hydraulic shock and audible noise is minimized. This shall be accomplished by a design, which will decrease the speed of the cylinder for the last one-half (1/2") inch of cylinder stroke on both directions of travel. YES

of cylinder stroke on both directions of travel. YES

Rods of inside and outside packing cylinders must be induction hardened to a surface hardness of 55-65 Rockwell C scale. YES

Rods of all cylinders shall be chrome plated. YES

All packing cylinder end lugs shall be forged steel material. YES

ELECTRICAL

All electrical wiring connectors to be automotive double-seal, with wiring in split convoluted loom. YES

All wiring connections to be soldered with rubber-molded covering or crimp type connectors with shrink-wrap. Unprotected wiring in any application is not acceptable. YES

All electrical limit switches shall be epoxy impregnated to minimize effects of excess moisture. YES

LIGHTING

Clearance, back up, and directional lights shall be Lexan lens, shock mounted in a protective housing. The whole unit shall be pop out and replaceable. YES

All lights shall be provided in accordance with FMVSS#108, ANSI Z245. 1-1999 plus mid body turn signals on each side of the body and a center brake light on the rear. YES

PAINT

The entire body shall be properly cleaned of all dirt, grease, and weld slag before painting. Cleaning shall be in keeping with accepted industry practices. YES

A primer coat and acrylic urethane enamel topcoat is to be applied. YES

The body is to be equipped with ICC regulation high visibility tape. The reflective tape is to be installed on lower body side perimeter and across rear hopper lip. YES

The body color shall be white as to match the cab. YES

ADDITIONAL FEATURES

Tailgate shall be equipped with an amber strobe light.	Dual front and rear with Smart lights.	<u>YES</u>
A cable system with hook to load city dumpsters		<u>YES</u>

15,000 lb. Reeving cylinder with lip and latch kit.

The unit shall come equipped with a 15,000 pound reeving cylinder equipped with a lip and latch kit.

CHASSIS SPECIFICATIONS
MODEL

2020 Year model 4700SB

New and unused conventional chassis

✓

156.9" CA

✓

Wheelbase: to accommodate body builder

✓

ENGINE

370 HP diesel engine and 1250 LB/FT torque

450/1550 ✓ Detroit DD13

Radiator: Minimum 1500 square inch

✓

Engine brakes

✓

Air cleaner: single element

✓

Fan Clutch: Air On/Off type

✓

Alternator: Minimum 12V 135 AMP

✓

Batteries: (3) 12 volt

✓

13 Gallon diesel exhaust fluid tank

✓

Single horizontal RH muffler with cab mounted vertical tailpipe, under frame routing, outside rail.

✓

Muffler/tailpipe guard

✓

TRANSMISSION AND EQUIPMENT

Allison 4000 RDS 6-speed automatic transmission with PTO provisions

✓ 4500 RDS

Push button, electronic shift control

✓

Under mounted pump off of PTO. No front mount pump will be acceptable.

✓

Interior Color: Beige or Gray

~~Base~~ premium
Beige

SAFETY FEATURES

Five (5) pound fire extinguisher mounted out board of driver seat

✓

Triangular reflectors without flares

✓

Rear Camera and backup alarm

Body side

PAINT

Cab Color: White

✓

Base/Clear

✓

WARRANTY/SERVICE

Towing- Included in Price. 3 year unlimited with no cap

✓

3 year Full Engine Warranty Included in Price
\$0 Deductible- Includes Emissions/aftertreatment
EW4 or equivalent

✓

Winning bidder must pickup and deliver the truck back when an issue arises,
Not charging a pickup and delivery fee. This includes towing for a warrantable
Repair.

✓

3 year guaranteed buyback price required. Turned in with unpriced specs
prior to bid

TC4 or equivalent chassis coverage

✓

State delivery time

Nov/Dec timeframe

OPTIONS

Show extended warranty options

✓

ADDITIONAL INFORMATION REQUIRED

Fuel mileage per gallon

Fuel emission amounts

Depends on idle time,
driver, route, etc....

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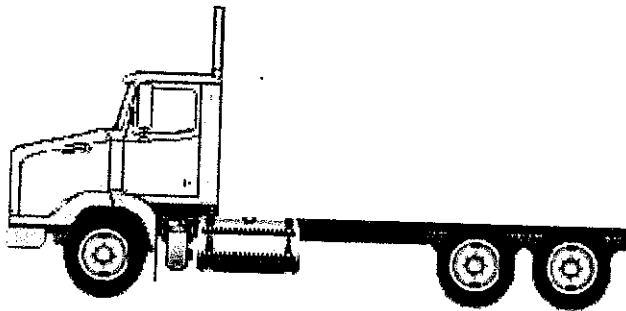
DD13

*A proposal for
City of Laurel*

*Prepared by
BURROUGHS DIESEL, INC.
William Burroughs*

May 22, 2019

Western Star 4700SB



Components shown may not reflect all spec'd options and are not to scale

S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear	Retail Price
Price Level				
PRL-20T	WESTERN STAR 4700 PRL-20T (EFF:04/30/19)			STD
Data Version				
DRL-003	SPECPRO21 DATA RELEASE VER 003			N/C
Vehicle Configuration				
001-451	4700 SET-BACK FRONT AXLE CHASSIS	9,215	6,530	
004-220	2020 MODEL YEAR SPECIFIED			
002-004	SET BACK AXLE - TRUCK			
019-002	STRAIGHT TRUCK PROVISION			
003-001	LH PRIMARY STEERING LOCATION			
General Service				
AA1-002	TRUCK CONFIGURATION			
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)			
A85-002	PICKUP AND DELIVERY/SHORT HAUL SERVICE			
A84-1GM	GOVERNMENT BUSINESS SEGMENT			
AA4-003	DRY BULK COMMODITY			
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			
AB1-008	MAXIMUM 8% EXPECTED GRADE			
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			
995-1A5	WESTERN STAR VOCATIONAL WARRANTY			
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 18000.0 lbs			
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 44000.0 lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 62000.0 lbs			
Truck Service				
AA3-039	CONTAINER BODY			N/C

Data Code	Description	Weight Front	Weight Rear	Retail Price
Engine				
101-2X9	DETROIT DD13 12.8L 450 HP @ 1625 RPM, 1900 GOV RPM, 1550 LB/FT @ 975 RPM			
Electronic Parameters				
79A-065	65 MPH ROAD SPEED LIMIT			
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			
79G-006	5 MINUTES IDLE SHUTDOWN WITH CLUTCH AND SERVICE BRAKE OVERRIDE			
79M-002	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED OR PARK BRAKE NOT APPLIED			
79T-001	PTO MODE RPM INCREMENT - 25 RPM			
79W-001	ONE REMOTE PTO SPEED			
79X-005	PTO SPEED 1 SETTING - 900 RPM			
80D-001	SOFT CRUISE CONTROL ENABLED			
Engine Equipment				
99C-017	2016-2019 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION			
99D-011	2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)			
13E-001	STANDARD OIL PAN			
105-001	ENGINE MOUNTED OIL CHECK AND FILL			
133-004	ONE PIECE VALVE COVER			
014-1B5	SIDE OF HOOD AIR INTAKE WITH DONALDSON HIGH CAPACITY AIR CLEANER WITH SAFETY ELEMENT, FIREWALL MOUNTED			
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE			
292-216	(3) DTNA GENUINE, AGM STARTING AND CYCLING, MIN 2190CCA, 570RC, THREADED STUD BATTERIES			
290-1AC	PASSENGER SEAT BATTERY BOX VENTED TO OUTSIDE OF CAB			
282-013	BATTERY BOX MOUNTED UNDER PASSENGER SEAT			
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			
289-006	PLASTIC BATTERY BOX COVER			
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT			

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Data Code	Description	Weight Front	Weight Rear	Retail Price
306-998	NO BATTERY/ISOLATOR CONTROL			
107-044	BW MODEL BA-921 19.0 CFM SINGLE CYLINDER AIR COMPRESSOR WITH SAFETY VALVE			
131-013	AIR COMPRESSOR DISCHARGE LINE			
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM			
128-002	JACOBS COMPRESSION BRAKE			
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE			
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH			
239-038	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT			
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP			
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK	35	10	
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			
242-001	STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD			
273-036	BORG WARNER (KYSOR) REAR AIR ON/OFF ENGINE FAN CLUTCH			
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			
110-068	DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR			
118-001	FULL FLOW OIL FILTER			
266-057	1500 SQUARE INCH ALUMINUM RADIATOR			
267-006	MOUNTING FOR FIREWALL MOUNTED SURGE TANK			
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT			
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			

Data Code	Description	Weight Front	Weight Rear	Retail Price
270-023	HDEP FIXED RATIO COOLANT PUMP AND RADIATOR DRAIN VALVE			
168-998	NO RADIATOR/OIL PAN GUARD	-5		
138-005	PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER			
166-005	PHILLIPS-TEMRO 300 WATT/115 VOLT OIL PREHEATER			
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			
134-001	ALUMINUM FLYWHEEL HOUSING			
155-075	MITSUBISHI 12V MOD 3.175-DP60 STARTER WITH INTEGRATED MAGNETIC SWITCH			
Transmission				
342-1M3	ALLISON 4500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	170	50	
Transmission Equipment				
343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV			
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			
* 84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED			
85P-998	NO REAR PTO TRANSMISSION RANGE			

Data Code	Description	Weight Front	Weight Rear	Retail Price
353-060	BODY LIGHTING INTERFACE BLUNT CUT WIRING WITH FUSE PANEL WIRE MOUNTED BETWEEN DRIVER AND PASSENGER SEATS			
34C-010	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR, BLUNT CUT, MOUNTED BETWEEN DRIVER AND PASSENGER SEATS			
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013			
370-011	WATER TO OIL TRANSMISSION COOLER, FRAME MOUNTED	15		
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			

Front Axle and Equipment

400-1BA	DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	
403-002	NON-ASBESTOS FRONT BRAKE LINING	
419-023	CONMET CAST IRON FRONT BRAKE DRUMS	
409-006	FRONT OIL SEALS	
408-016	STEMCO ALUMINUM VENTED FRONT HUB CAPS WITH WINDOW AND CENTER AND SIDE PLUGS - OIL	
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES	
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS	
406-001	STANDARD KING PIN BUSHINGS	
536-012	TRW TAS-85 POWER STEERING	
539-003	POWER STEERING PUMP	
534-003	4 QUART POWER STEERING RESERVOIR	5
533-001	OIL/AIR POWER STEERING COOLER	5
40T-003	SYNTHETIC 50W FRONT AXLE LUBE	

Front Suspension

620-013	18,000# TAPERLEAF FRONT SUSPENSION	-90
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION	

Data Code	Description	Weight Front	Weight Rear	Retail Price
410-001	FRONT SHOCK ABSORBERS			N/C
Rear Axle and Equipment				
420-1K7	MT-44-14X 44,000# R-SERIES TANDEM REAR AXLE		65	
421-433	4.33 REAR AXLE RATIO			
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			
386-075	MXL 18T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	40	40	
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES			
878-019	(1) INTERAXLE LOCK VALVE FOR TANDEM OR TRIDEM DRIVE AXLES			
87A-006	INDICATOR LIGHT AND BUZZER FOR EACH INTERAXLE LOCKOUT SWITCH			
423-019	MERITOR 16.5X8.62 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES			
433-002	NON-ASBESTOS REAR BRAKE LINING			
434-003	STANDARD BRAKE CHAMBER LOCATION			
451-021	GUNITE CAST IRON REAR BRAKE DRUMS		10	
440-006	REAR OIL SEALS			
426-101	WABCO TRISTOP D LONGSTROKE 2-DRIVE AXLE SPRING PARKING CHAMBERS			
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS			
41T-002	SYNTHETIC 75W-90 REAR AXLE LUBE			
Rear Suspension				
622-1CJ	HENDRICKSON RT463 @46,000# REAR SUSPENSION		730	
621-016	HENDRICKSON RT/RTE - 7.19" SADDLE			
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			
624-011	52 INCH AXLE SPACING		-20	
628-005	STEEL BEAMS AND BRONZE CENTER BUSHINGS WITH BAR PIN ADJUSTABLE END CONNECTIONS			
623-005	FORE/AFT CONTROL RODS			
439-001	REAR SHOCK ABSORBERS - ONE AXLE		40	
Brake System				
490-100	WABCO 4S/4M ABS			STD
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			STD

Data Code	Description	Weight Front	Weight Rear	Retail Price
904-001	FIBER BRAID PARKING BRAKE HOSE			
412-001	STANDARD BRAKE SYSTEM VALVES			
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			
480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER			
479-006	AIR DRYER MOUNTED OUTBOARD ON RH RAIL			
460-001	STEEL AIR BRAKE RESERVOIRS			
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS			
Trailer Connections				
1AZ-998	NO TRAILER RECEPTACLE BRACKET			STD
Wheelbase & Frame				
545-570	5700MM (224 INCH) WHEELBASE			
546-1B2	1/2X3.64X11-7/8 INCH STEEL FRAME (12.7MMX301.6MM/0.5X11.88 INCH) 120KSI	690	120	
552-030	1600MM (63 INCH) REAR FRAME OVERHANG			
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH			
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 161.09 in			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 158.09 in			
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 317.51			
ZF1-99D	FRAME HEIGHT TOP FRONT UNLADEN : 42.82 in			
ZF2-99D	FRAME HEIGHT TOP FRONT LADEN : 39.94 in			
ZF3-99D	FRAME HEIGHT TOP REAR UNLADEN : 45.17 in			
ZF4-99D	FRAME HEIGHT TOP REAR LADEN : 39.94 in			
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 86.37 in			
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 213.59 in			
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 160.69 in			
553-001	SQUARE END OF FRAME			
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER			
561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION			
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)			
572-001	STANDARD REARMOST CROSSMEMBER			
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER			

Data Code	Description	Weight Front	Weight Rear	Retail Price
568-001	STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER			STD
Chassis Equipment				
556-1E6	14 INCH CHROMED STEEL BUMPER			
558-033	REMOVABLE FRONT TOW HOOKS STORED ON THE CHASSIS FRAME	25		
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE			
586-015	FRONT ANTI-SPRAY CAB MOUNTED MUDFLAPS			
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS			
44Z-002	EXTERIOR HARNESSSES WRAPPED IN ABRASION TAPE			
Fuel Tanks				
204-154	80 GALLON/302 LITER ALUMINUM FUEL TANK - LH	10		
218-006	25 INCH DIAMETER FUEL TANK(S)			
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			
212-007	FUEL TANK(S) FORWARD			
664-001	PLAIN STEP FINISH			
205-001	FUEL TANK CAP(S)			
216-020	EQUIFLO INBOARD FUEL SYSTEM			
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			
221-001	FUEL COOLER			
Tires				
093-1VM	MICHELIN X LINE ENERGY Z 315/80R22.5 20 PLY RADIAL FRONT TIRES	50		
094-1UY	MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)		120	
Hubs				
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS			STD
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS			STD
Wheels				
502-433	ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS	66		
505-523	MAXION WHEELS 90262 22.5X8.25 10-HUB PILOT 5-HAND STEEL DISC REAR WHEELS		72	

Data Code	Description	Weight Front	Weight Rear	Retail Price
496-011	FRONT WHEEL MOUNTING NUTS			STD
497-011	REAR WHEEL MOUNTING NUTS			STD
Cab Exterior				
829-1A8	110 INCH BBC STEEL CONVENTIONAL CAB			
82A-023	WESTERN STAR PAINTED ALUMINUM CAB SKIRT			
650-044	AIR CAB MOUNTS WITH CHECK VALVE			
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE			
667-001	FRONT FENDERS			
754-001	2 INCH FENDER EXTENSIONS	5		
678-034	LH AND RH EXTERIOR GRAB HANDLES WITH RUBBER INSERTS AND RH INTERIOR GRAB HANDLE MOUNTED TO A POST			
646-008	STATIONARY BRIGHT FINISH GRILLE			
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE			
640-009	HEAVY DUTY STEEL CAB FLOOR			
644-004	FIBERGLASS HOOD			
727-096	DUAL ROUND AIR HORNS, SINGLE BASE, MOUNTED UNDER CAB			
726-001	SINGLE ELECTRIC HORN			
657-1AG	DOORS AND IGNITION KEYED THE SAME			
575-001	REAR LICENSE PLATE MOUNT END OF FRAME			
312-072	SINGLE RECTANGULAR SEALED BEAM HEADLIGHTS WITH BRIGHT BEZELS			
302-001	(5) AMBER MARKER LIGHTS			
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS			
300-015	STANDARD FRONT TURN SIGNAL LAMPS			
744-089	DUAL GROTE STAINLESS STEEL HEATED GRID TYPE MIRRORS WITH REINFORCED UPPER BRACKET			
797-001	DOOR MOUNTED MIRRORS			
796-001	102 INCH EQUIPMENT WIDTH			
743-1AA	LH AND RH SUREPLUS 574 8 INCH BRIGHT FINISH HEATED CONVEX MIRRORS WITH SEPARATE ADJUSTMENT, MOUNTED BELOW MIRROR			
74A-998	NO AUXILIARY MIRROR			
729-001	STANDARD SIDE/REAR REFLECTORS			
764-001	FIBERGLASS EXTERIOR SUN VISOR	24		
768-046	17.5X35 INCH TINTED REAR WINDOW			STD

Data Code	Description	Weight Front	Weight Rear	Retail Price
661-006	TINTED DOOR GLASS			
654-003	MANUAL DOOR WINDOW REGULATORS			
663-014	2-PIECE TINTED CURVED BONDED WINDSHIELD			
659-025	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, MOUNTED UNDER CAB, WITH REMOTE FILL			
Cab Interior				
707-1D3	PRAIRIE BUCKSKIN VINYL PREMIUM INTERIOR			
70K-007	TAN HARD TRIM			
706-048	PREMIUM LEFT HAND DOOR TRIM WITH CHERRY ACCENT			
708-048	PREMIUM RIGHT HAND DOOR TRIM WITH CHERRY ACCENT			
772-006	BLACK MATS WITH SINGLE INSULATION			
785-016	DASH MOUNTED ASH TRAY AND (1) POWER OUTLET			
691-001	FORWARD ROOF MOUNTED CONSOLE			
694-009	PASSENGER SIDE WING DASH MOUNTED GLOVE BOX WITH LOCKING DOOR			
697-012	14"X7.75" DOCUMENT POUCH MOUNTED ON BACK WALL BETWEEN SEATS			
693-025	LH AND RH DOOR MAP POCKETS			
741-015	(2) COAT HOOKS ON BACKWALL OF CAB			
742-026	(1) CUP HOLDER MOUNTED IN BOTTOM CENTER OF DASH			
680-035	TWO-TONE CHARCOAL UPPER/BUCK TAN LOWER SOFT TOUCH WING DASH WITH BLACK DRIVER SIDE COSMETIC UNDER DASH COVER			
720-001	2-1/2 LB. FIRE EXTINGUISHER MOUNTED OUTBOARD OF DRIVER SEAT	5		
700-014	HEATER, DEFROSTER AND AIR CONDITIONER WITH CONSTANT OUTLET TEMPERATURE CONTROL			
701-016	HVAC DUCTING WITH FOAM MAIN FRESH AIR FILTER			
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			
170-015	STANDARD HEATER PLUMBING			
130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR			
698-001	RADIATOR MOUNTED AIR CONDITIONER CONDENSER			
702-002	BINARY CONTROL, R-134A			

Data Code	Description	Weight Front	Weight Rear	Retail Price
739-001	CAB INSULATION			
285-019	AUTOMATIC SELF-RESET CIRCUIT BREAKER IN MAIN DASH POWER DISTRIBUTION BOX AND CIRCUIT BREAKER/FUSE IN AUXILIARY POWER DISTRIBUTION BOXES			
324-075	DOOR ACTIVATED DOME LIGHT, UNDER DASH LIGHT AND LH AND RH DOOR MOUNTED COURTESY LIGHTS			
655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS			
756-1DD	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 1 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION AND REAR CUSHION TILT			
760-038	NATIONAL 2 MAN TOOL/BATTERY BOX MID BACK NON SUSPENSION PASSENGER SEAT			
759-009	INBOARD DRIVER SEAT ARMREST, NO PASSENGER SEAT ARMREST	2		
758-1AK	BLACK VINYL DRIVER SEAT COVER			
761-1AK	BLACK VINYL PASSENGER SEAT COVER			
763-006	3 POINT DRIVER AND PASSENGER AND 2 POINT CENTER FRONT SEAT BELT RETRACTORS			
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN			
540-023	2-SPOKE 18 INCH (450MM) BLACK LEATHER WRAPPED STEERING WHEEL			
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			

Instruments & Controls

185-002	NON-ADJUSTABLE SUSPENDED PEDALS			
106-002	ELECTRONIC FOOT ACCELERATOR			
870-005	STAR GAUGES WITH BRIGHT BEZELS			
732-047	FIGURED CHERRY WOODGRAIN ULTRA GLOSS FINISH DRIVER INSTRUMENT PANEL			
734-047	FIGURED CHERRY WOODGRAIN ULTRA GLOSS FINISH CENTER INSTRUMENT PANEL			
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM			
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			
198-002	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS			
721-001	97 DB BACKUP ALARM		3	
149-012	CRUISE CONTROL SWITCHES IN THE CENTER PANEL			

Data Code	Description	Weight Front	Weight Rear	Retail Price
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			
811-1AJ	DATASTAR DRIVER DISPLAY AND WARNING LAMP/LIGHT BAR DISPLAY, NON-DATA LINKED			
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			
844-001	2 INCH ELECTRIC FUEL GAUGE			
845-011	FUEL FILTER RESTRICTION INDICATOR			
148-085	EMISSIONS LIMITED IDLE ADJUST			
4C0-998	NO ADDITIONAL EXTRA SWITCH ACCUATORS			
44Y-998	NO CUSTOMER INTERFACE CONNECTOR			
48F-998	NO PREWIRED HIGH POWER CIRCUIT			
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			
854-001	ENGINE OIL TEMPERATURE GAUGE			
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			
746-114	AM/FM/WB WORLD TUNER RADIO WITH AUXILIARY INPUT, J1939	10		
747-002	ROOF/OVERHEAD CONSOLE MOUNTED RADIO			
750-004	(4) RADIO SPEAKERS IN CAB			
753-019	AM/FM ANTENNA MOUNTED ON RH FRONT A- PILLAR	2		
748-998	NO CB RADIO/PROVISION			
752-998	NO CB ANTENNA, BRACKET OR LEAD			
810-042	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITH ODOMETER			
817-001	STANDARD VEHICLE SPEED SENSOR			
812-003	ELECTRONIC 3000 RPM TACHOMETER WITH HOUR METER			
813-998	NO VEHICLE PERFORMANCE MONITOR	-5		
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP			
4C1-998	NO HARDWIRE SWITCH #1			
4C2-998	NO HARDWIRE SWITCH #2			
4C3-998	NO HARDWIRE SWITCH #3			
4C4-998	NO HARDWIRE SWITCH #4			
4C5-998	NO HARDWIRE SWITCH #5, ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR			

	Data Code	Description	Weight Front	Weight Rear	Retail Price
	4C6-998	NO HARDWIRE SWITCH #6,ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR			
	4C7-998	NO HARDWIRE SWITCH #7,ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR			
	4C8-998	NO HARDWIRE SWITCH #8,ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR			
	4C9-998	NO HARDWIRE SWITCH #9,ON/OFF LATCHING, WIRED TO CUSTOMER INTERFACE CONNECTOR			
	4D0-998	NO HARDWIRE SWITCH #10,ON/OFF LATCHING,WIRED TO CUSTOMER INTERFACE CONNECTOR			
	842-001	2 INCH TURBO AIR PRESSURE GAUGE			
	836-001	2 INCH VOLTMETER			
	660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY			
	304-015	CAB/TRAILER MARKER LIGHT SWITCH WITH SEPARATE HEADLIGHT SWITCH			
	882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR			
	299-037	SELF CANCELING TURN SIGNAL SWITCH WITH INTEGRAL HEADLAMP DIMMER WITH BRAKE OVERRIDE			
	298-036	PACIFIC INSIGHT ELECTRONIC FLASHER			
Design					
	065-000	PAINT: ONE SOLID COLOR			STD
Color					
	980-5F6	CAB COLOR A: L0006EB WHITE ELITE BC			
	96J-001	CAB INTERIOR PAINTED SAME AS CAB COLOR			
	986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			
	962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			
	966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			
	976-995	SUNVISOR PAINTED SAME AS CAB COLOR A			
Certification / Compliance					
	996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			STD
Raw Performance Data					

Data Code	Description	Weight Front	Weight Rear	Retail Price
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 317.51			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 158.09 in			
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 160.69 in			

Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

Extended Warranty

WAI-5NY EW4: DD13 VOC \$0 DED 3 YEARS/200,000 MILES/322,000 KM. FEX
APPLIES

WBB-242 TC4: HD STANDARD 3 YEARS/200,000 MILES / 322,000 KM
EXTENDED TRUCK COVERAGE. FEX APPLIES

WAG-012 TOWING: 3 YEARS/UNLIMITED MILES/KM EXTENDED TOWING
COVERAGE \$550 CAP FEX APPLIES

TRUCK COVERAGES

TC2	<u>INCLUDES EVERYTHING IN TC1, PLUS:</u>	Gearing, Drive Shafts
TC3	<u>INCLUDES EVERYTHING IN TC2, PLUS:</u>	Brakes, Wiring, Fuel System
TC4 (Premium)	<u>INCLUDES EVERYTHING IN TC3, PLUS:</u>	Steering, Exhaust System, ATS/Emissions, Supplemental Info Devices, Cab & Sheet Metal, Instruments & Gauges, Transfer Case Mounts

ENGINE COVERAGES

EW1		
EW2	<u>INCLUDES EVERYTHING IN EW1, PLUS:</u>	Air Compressor, Fuel Injectors, Turbocharger, Water Pump, Seal
EW3	<u>INCLUDES EVERYTHING IN EW2, PLUS:</u>	Aftertreatment Control Module, Aftertreatment NO _x Sensors, Aftertreatment Pressure Sensors, Aftertreatment Temperature Sensors, DEF Pump/Metering Unit/Injection Unit, Electrical Harness & Connectors, Hydrocarbon Fuel Line Hydrocarbon Injection Valve, Hydrocarbon Metering Unit, Seals - Front & Rear Crankshaft
EW4	<u>INCLUDES EVERYTHING IN EW3, PLUS:</u>	Aftertreatment System Mounting, Brackets & Clamps, Diesel Oxidation Catalyst & Housing, Diesel Particulate Filter & Housing, SCR Catalyst & Housing



EXTENDED COVERAGE



EXTENDED SERVICE COVERAGE

CHASSIS EXTENDED SERVICE COVERAGE

TOWING (WAG):

Max payment as displayed, per occurrence, for towing or roadside assistant for a defect in material and workmanship of a component that prevents the safe and lawful operation of the vehicle. If towing is associated with a DTNA warrantable failure, towing charges must be filed on the same claim.

Excludes: Damage to the vehicle from improper towing.

DTNA does not cover components supplied by third party and covered by manufacturer's warranty such as Eaton or Allison. DTNA does not cover parts that are subject to consumption during their normal service life and are routinely replaced during normal services. DTNA does not cover non-factory installed components or parts, or progressive damage caused by failure of such components or parts, including, but not limited to, non-factory installed glider, bodybuilder, dealer and customer installed components and parts. See Section 6 of Warranty Manual for supplier warranty guidelines. See Section 1 of Warranty Manual for limitations of liability, and for components, part, and condition exclusions.

All claims subject to claim code restrictions.

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