



## PURCHASING DEPARTMENT

Madison County Board of Supervisors  
146 West Center Street  
Canton, MS 39046 / 601-855-5534  
[kesha.buckner@madison-co.com](mailto:kesha.buckner@madison-co.com)

May 17, 2021

To: Board of Supervisors  
From: Kesha Buckner, Purchasing Clerk  
Subject: Award Knuckleboom Truck

KB

Attached are copies of the results of recent reverse auction for Knuckleboom Truck.

I recommend that the Board take the following action:

1. Acknowledge the bids received;
2. Award bid to Hol-Mac Corporation, Inc. as the lowest and best bidder

Thank you in advance for your cooperation of the above recommendations.

- Create New Bid
- View Pending Bids
- View Open Bids
- View Closed Bids
- View Public Log
- Bid System Log
- Permissions
- Current Time: 05-10-2021 11:30:03 am

Show  entries

Search:

ID	Name	Phone	Email	Company Name	Date Submitted	Bid Amount	View Bid
2508	Freightliner with Brushhawg body	(601) 543-8261	Jacob.Vickers@empiretruck.com	Empire Truck Sales LLC	05-10-2021 10:03:18 am	\$150,375.00	
2509	Freightliner with Pac Mac Body	(601) 543-8261	jacob.vickers@empiretruck.com	Empire Truck Sales, LLC	05-10-2021 10:09:18 am	\$142,500.00	
2510	Freightliner with Pac Mac Body	(601) 543-8261	jacob.vickers@empiretruck.com	Empire Truck Sales, LLC	05-10-2021 10:10:11 am	\$142,500.00	
2511	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:17:38 am	\$141,995.00	<a href="#">View Bid</a>
2512	Freightliner with Pac Mac Body	(601) 543-8261	jacob.vickers@empiretruck.com	Empire Truck Sales, LLC	05-10-2021 10:47:29 am	\$141,400.00	
2513	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:54:58 am	\$141,295.00	
2514	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:35 am	\$141,295.00	
2515	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:36 am	\$141,295.00	
2516	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:38 am	\$141,295.00	
2517	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:39 am	\$141,295.00	
2518	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:41 am	\$141,295.00	
2519	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:42 am	\$141,295.00	
2520	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:44 am	\$141,295.00	
2521	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:45 am	\$141,295.00	
2522	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:47 am	\$141,295.00	
2523	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:48 am	\$141,295.00	
2524	Pac-Mac/Freightliner (Hol-Mac)	(601) 764-7050	harris.john@hol-mac.com	Hol-Mac Corporation	05-10-2021 10:59:49 am	\$141,295.00	

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**MADISON COUNTY BOARD OF SUPERVISORS**  
**SPECIFICATIONS AND PROPOSAL SHEET**  
**KNUCKLEBOOM TRUCK**

UNLESS OTHERWISE NOTED, ALL SPECIFICATIONS ARE STATED AS THE MINIMUM REQUIREMENT  
UNPRICED PROPOSAL DUE 10:00 a.m. – THURSDAY, APRIL 29, 2021

**UNPRICED PROPOSAL MUST BE SIGNED & SUBMITTED ON COUNTY'S PROPOSAL SHEET**

Proposal may be submitted by either of the following methods:

1. Sealed proposals will be received until 10:00 a.m., on Thursday, April 29, 2021 at the Madison County Chancery Clerk's Office, 125 West North Street, Canton, MS 39046. All sealed proposals submitted to the Chancery Clerk's office shall have the bidder's name and the name of the product or service for which a proposal is being submitted written on the outside face of the envelope. If any envelope is not so marked, said proposal shall not be opened and considered.
2. Electronic proposals will be received until 10:00 a.m., on Thursday, April 29, 2021 as a PDF file via Madison County's website at <http://www.madison-co.com/bids>. Each bidder submitting a proposal electronically shall include a signed copy of Madison County's proposal sheet as part of its PDF bid submittal.

The below signed company agrees that if it is awarded the proposal bid by the Madison County Board of Supervisors for any or all of the products on this Specifications and Proposal Sheet that it will provide said product(s) in a timely manner at the awarded proposal bid price. **120 days**

Final bidding for proposals will be held by live electronic reverse auction on Monday, May 10, 2021 beginning at 10:00 a.m. CDT, with scheduled ending time of 11:00 a.m. CDT. Qualified vendors can access the live reverse auction on the link distributed by email to qualified vendors.

The Madison County Board of Supervisors reserves the right to extend the auction date if necessary to complete the bid proposal pre-qualification process.

The knuckleboom truck shall be a new, unused current production model. It shall have all standard equipment as shown in the manufacturer's printed literature. The knuckleboom truck specifications are divided into two parts: (1) tandem-axle straight truck chassis and (2) knuckleboom loader and trash body. The last page of the specifications is the MANDATORY BID SHEET on which all bids shall be submitted.

## **1.0 BOOM**

- YES** 1.1 Total boom length shall be 16 feet with 4 foot telescoping section to 20ft.
- YES** 1.2 Minimum lift capacity shall be 3,300 pounds at 20 feet, including grapple
- YES** 1.3 Boom Pedestal to be constructed of high-strength steel, providing a 3:1 safety factor.
- YES** 1.4 Boom Pivot shall be mounted to the pedestal by means of a slewing ring\bearing that has a minimum capacity of 513,000 pounds static load and 186,000 feet-pounds moment. Slewing ring shall be 3 ½ thick and have an O.D. of 25 ¾. Boom pivot shall be constructed with a 9" O.D. safety retaining tube. The Boom Pivot safety retaining tube shall be a minimum of 12" long and confine all hoses which pass through the pedestal/boom pivot assembly.
- YES** 1.5 Boom rotation of 270 degrees minimum with mechanical stops and brake for safety. Stops must be welded into machined recesses to ensure non-movement. Pedestal stop must have a minimum of (3) square inches and have a nylon contact with pivot stops and a minimum width of (5) inches.
- YES** 1.6 Boom rotation shall be accomplished by a direct hydraulic swing drive through a slewing (bearing) ring & planetary gearbox capable of producing 250,000 inch-pounds torque.
- YES** 1.7 Entire boom assembly shall be designed with a tensile strength to provide a safety factor of 3 to 1 at the rated load capacity.
- YES** 1.8 Main boom and tip boom shall be constructed of reinforced high-strength steel tube.
- YES** 1.9 Main boom shall be equipped with mechanical stops to prohibit hydraulic cylinders from bottoming out.
- YES** 1.10 Tip boom shall have a 4' telescopic extension tip section constructed from 4"x 6" high strength steel tube.
- YES** 1.11 Main Boom shall be equipped with mechanical stops to prohibit hydraulic cylinders from bottoming out. Extend boom stops must be easily accessible and removable for service.
- YES** 1.12 Boom pedestal to be mounted directly to the chassis frame rails. Mounting must include inside frame rail supports at the mounting points.
- YES** 1.13 The entire boom must be serviceable down to the component level, including every hydraulic hose, fluid tubes, bracket, pin, etc. The need to replace subassemblies in order to repair a component will not be acceptable.
- YES** 1.14 Telescopic tip extension shall be equipped with replaceable nylon bearings on all 3 sides with roller on bottom. Bearings must be easily accessible for replacement and have "auto-hose-slack" take-up.



- YES** 1.15 All boom connections requiring pins shall be equipped with replaceable bushings and heat-treated steel pins with provisions for lubrication.
- YES** 1.16 All operating functions shall be hydraulically controlled from the operator station located both on the left and right hand side of the loader.
- YES** 1.17 Two stage tandem pump allows for multiple function control of the loader.
- YES** 1.18 Hydraulic lines shall travel through the inside of the boom for safe, unrestricted operation.

## **2.0 Operator's Station**

- YES** 2.1 Operator controls shall be controlled by means of hydraulic joysticks located on both sides of the loader (two per side, three functions per joy stick)
- YES** 2.2 A safety feature shall be provided to allow only one side of controls to function at a time. Joy sticks shall function only from one side at a time.
- YES** 2.3 Joy sticks shall not require any lubrication
- YES** 2.4 Outriggers shall be controlled by individual levers located conveniently in the center of the operator's platform.
- YES** 2.5 Body dumping shall be controlled by a single lever at the center of the operator's platform separate from any other control. Proper enclosures shall be provided to protect operator from hydraulic fluid and components. All controls shall be clearly identified as to function.
- YES** 2.6 Unit to have an electric-operated throttle control to maintain proper engine speed when loader is operated under load. Switch for throttle control to be mounted on operator's platform for operator's convenience.
- YES** 2.7 Main Boom and Tip Boom cylinders must incorporate integral holding valves. Externally mounted holding valves are not acceptable.

## **3.0 Trash Grapple/Bucket**

- YES** 3.1 Bucket shall have a 360-degree continuous-rotating grapple with a replaceable hydraulic swivel. Swivel shall not be welded or be an integral part of the grapple.
- YES** 3.2 Bucket is to be opened and closed by (2) hydraulic cylinders with a closing force\ "bite" of 3,600 lbs.

**YES** 3.3 Bucket shall be 4 feet long and capable of opening to 60 inches from lip to lip.

**YES** 3.4 Bucket shall be fabricated with a bolt-on replaceable H.S.H.C. steel cutting edge.

#### **4. Hydraulics**

**YES** 4.1 Reservoir shall be a minimum of 45 gallons. It shall have a dual level oil temperature gauge on side of tank. An in-tank suction strainer is included.

**YES** 4.2 Filter shall be a 10-micron, return-line replaceable mounted on outside of reservoir.

**YES** 4.3 Main boom, top boom and outrigger hydraulic cylinders shall contain pilot operated check valves as an integral part of each cylinder to prevent boom movement in the event of hydraulic hose failure. Bolt on pilot operated check valves will not be permissible.

**YES** 4.4 All hoses shall be rated at 4,000 PSI working pressure.

**YES** 4.5 Control valves shall have a 20 GPM rating

**YES** 4.6 Oil cooling fan

**YES** 4.7 A clearly defined emergency PTO stop button to be located in the center of the operators platform accessible from either operating side

**YES** 4.8 Successful bidder must provide a computer printout at time of delivery showing particle testing of the hydraulic oil done just prior to the unit being shipped in order to illustrate cleanliness of hydraulic system.

**YES** 4.9 All hydraulic cylinders to be of the "bolt-on head-gland" design.

#### **5.0 Power Source**

**YES** 5.1 Unit to be mounted on any chassis that meets the manufactures recommended specification with a heavy duty clutch style (hot-shift) PTO and a heavy duty bi-rotational tandem hydraulic pump.

#### **6.0 Throttle Control**

**YES** 6.1 Unit shall have an electric-operated throttle control to maintain proper engine speed when loader is operated under load. Switch for throttle control to be mounted on operator's platform for operator's convenience.

**YES** 6.2 Throttle speed-up shall operate only when the transmission is in the neutral position.

## **7.0 Outriggers**

- YES** 7.1 Outriggers shall be extendable to a distance that will resist loads of 85% of the tipping moment under maximum rated load.
- YES** 7.2 Outriggers shall telescope horizontally in and out; and vertically up and down and operate independently by means of individual mechanical linkage controls. Controls must be located a distinctive distance from the main boom controls.
- YES** 7.3 The outriggers shall be equipped with smooth pads to cause minimum damage to contacted surface.
- YES** 7.4 Outriggers shall retract to within the maximum highway width and will extend to a maximum width to resist the design load moment.
- YES** 7.5 Outrigger cylinders shall contain holding valves on extend and retract functions to prevent outrigger leak down

## **8.0 Loader Paint**

- YES** 8.1 Loader shall receive one coat of high- grade primer and two coats of high-grade enamel paint (manufacturer's standard colors).
- YES** 8.2 Body exterior shall receive one coat of high-grade primer and two coats of high-grade standard black enamel paint.
- YES** 8.3 Body interior shall receive one coat of high-grade primer.
- YES** 8.4 Body shall have a rear safety bumper. Bumper to meet U.S. Department of Transportation Federal Motor Carrier Safety Administration, part 571.233 for rear impact guards and part 571.224 for rear impact protection.

## **9.0 Trash Body**

- YES** 9.1 Trash body capacity shall be a minimum of 24 cubic yards
- YES** 9.2 18-foot body length.
- YES** 9.3 Body floor shall be made of ¼ sheet of steel. Sides are formed to create the lower side bumper channel structure of the body.
- YES** 9.4 Body walls shall be constructed with 10-gauge sheet steel. Wall stiffeners shall be 3 inches x 4 inches minimum 11-gauge formed channels placed on approximately 24-inch centers.
- YES** 9.5 Body walls shall have a top rail formed from a minimum of 11-gauge steel in such manner as to encapsulate top end of vertical wall stiffeners and edge of wall sheet.

- YES** 9.6 Wall stiffeners will be welded to top rail and stiffeners will be welded to the wall sheet.
- YES** 9.7 Front body wall to be 42-inches high with side walls transitioning from 42 inches high at the front to 72 inches high 8 ft. from the front.
- YES** 9.8 Body full-length main structural-channel sills to be 8 inches at 11.5 pounds per foot. Cross sills to be 4 inches at 5.4 pounds per foot structural channel. Cross sills to be placed on 12-inch centers.
- YES** 9.9 Body shall have (2) equal width barn type rear doors 60 inches high to swing completely around to each side wall with provisions to positively latch open for dumping.
- YES** 9.10 Each door shall be hinged with (2) 1 inch hinge pins. Hinges must be welded to body and door and must contain easily accessible grease fittings. Door latch will secure both doors at the top and bottom
- YES** 9.11 The rear door shall serve as the grapple rest and have a slot 25-inches wide x 12-inches tall. The door shall have a 3/16 inch skin with a 4-inch x 2-inch x 1/4-inch rectangular tubing reinforcement to support weight of grapple.
- YES** 9.12 Door latch shall be cam-operated from the driver's side and provide a safety lock. A provision shall be made to allow the door to be opened and rotate against passenger side body wall with latch to hold open while dumping body.

## **10.0 Body Hoist**

- YES** 10.1 Body shall have two body safety props installed one on each side of the chassis frame rails.

## **11.0 Lights and Reflectors**

- YES** 11.1 Shall conform to current state and federal standards.
- YES** 11.2 Oval amber LED strobes in rear corner posts of body with alternating flash pattern.
- YES** 11.3 Reflective safety tape shall be on both sides and on rear of body.

## **12.0 Body Paint**

- YES** 12.1 Body exterior shall receive one coat of high-grade primer and two coats of high-grade enamel paint.
- YES** 12.2 Body interior shall receive one coat of high-grade primer.

### **13.0 Safety Rear Bumpers**

**YES** 13.1 Body shall have a rear safety bumper which shall meet U.S. Department of Transportation Federal Motor Carrier Safety Administration Part 571.233 for rear impact guards and Part 571.224 for rear impact protection.

### **14.0 Safety Props**

**YES** 14.1 Two body safety props shall be installed, one on each side of the body frame rails.

### **15.0 Warranty**

**YES** 15.1 Entire unit shall have a one-year parts and labor warranty and a one-year structural warranty.

**YES** 15.2 Bidder must provide all warranties required below. Failure to provide such warranties may result in your bid being deemed non-responsive.

**YES** 15.3 All warranty work shall be done on customer's site (on-site warranty repair). Customer shall not be responsible for transportation of unit for warranty work.

**YES** 15.4 3 year warranty on gear box, slewing ring.

**YES** 15.5 3 year structural warranty.

**YES** 15.6 All warranty work shall be done on customer's site (on-site warranty repair) Customer shall not be responsible for transportation of unit for warranty work.

### **16.0 Other Requirements**

**YES** 16.0 18" Deep x 18" Wide x 48" locking heavy duty truck box shall be frame mounted on the right side OC cab behind operator platform.

**YES** 16.1 Minimum Allison 3000 RDS w/PTO provision and push button shift control on dash

**YES** 16.2 Interface wiring and body builder connector back of cab.

**YES** 16.3 Electronic transmission customer access connector back of cab

**YES** 16.4 Water to oil transmission cooler

**YES** 16.5 Synthetic transmission fluid (TES-295 Complaint)

**YES** 16.6 Electronic transmission customer access connector firewall mounted

**YES** 16.7 Engine remote interface with present fast idle.

**YES** 16.8 Engine remote interface connector mounted back of cab.

**YES** 16.9 Engine 260 horsepower, 6 cylinder diesel with 660lb/ft torque or greater **260 HP/760TQ**

### **17.0 Front Axle**

**YES** 17.1 12,000lb front axle with synthetic 75w90 lube

**YES** 17.2 12,000lb taper leaf suspension w/shock absorbers

17.3 16.5" x 5" Q+ brake shoes w w/auto slack adjusters and dust shields  
**YES/NO DUST SHIELDS**

### **18.0 Rear Axle**

**YES** 18.1 21,000lb rear axle with synthetic 75x90 lube

**YES** 18.2 23,000lb flat leaf suspension w/helper and radius rod

**YES** 18.3 17ft main driveline or equivalent

**YES** 18.4 Axle ratio to be between 5.14 and 6.86 to achieve road speed of 68 mph. **5.56**

### **19.0 Brake System**

**YES** 19.1 Anti- Lock Air Brakes

**YES** 19.2 Bendix AD-9 air dryer with pull cables on all reservoirs

### **20.0 Frame and Wheelbase**

**YES** 20.1 254" Wheelbase or equivalent for body specified 186" CA, 96" AF

**YES** 20.2 Front Tow Hooks

**YES** 20.3 1 1/32" x 3-1/2" x 10-15/16" Steel frame or equivalent with 120KSI

### **21.0 Fuel Tanks & Equipment**

**YES** 21.1 Minimum 50 - 75 gallon aluminum fuel tank **50 GAL**

**YES** 21.2 Fuel water separator with primer

### **22.0 Cab & Equipment**

**YES** 22.1 Heavy Duty Non-Automotive Cab w/Chrome Grill

- YES 22.2** Bug Screen, LH/RH grab handles
- YES 22.3** Air cab mounts
- YES 22.4** Dual west coast mirrors, LH &RH
- YES 22.5** Single air horn
- YES 22.6** Heater, Defroster, Air Conditioner
- YES 22.7** High Back air ride driver bucket seat w/2 man passenger seat w/toolbox underneath
- 22.8** Vinyl seat covers for driver and passenger  
**MADURA CLOTH**
- YES 22.9** Cruise Control, tachometer, backup alarm, oil pressure gauge
- YES 22.10** AM/FM Radio/USB/WB
- YES 22.11** Two cup holders in dash
- YES 22.12** Electric windshield wipers w/Delay
- 23.0 Tires and Wheels**
- YES 23.1** Front Tires: 11R/22.5 14PLY with highway tread – 10 hub pilot disc
- YES 23.2** Rear Tires: 11R/22.5 14PLY with traction tread – 10 hub pilot disc wheels



COMPANY NAME: HOL-MAC CORPORATION

ADDRESS: 160 COMMERCE DRIVE, BAY SPRINGS , MS 39422

TELEPHONE: 601-754-7050

FAX NUMBER: 601-764-4282

EMAIL: harris.john@hol-mac.com

 4/29/2021  
AUTHORIZED REPRESENTATIVE'S SIGNATURE DATE

John Harris

**PRINTED AUTHORIZED REPRESENTATIVE'S NAME HERE**

PROPOSAL SHEET MUST BE SIGNED AND DATED BY AN AUTHORIZED COMPANY REPRESENTATIVE

MUST INCLUDE PRODUCT SUMMARY, INCLUDING DETAILS OF ALL FEATURES AND OPTIONS OF PROPOSED VEHICLE

**Delivery time: approximately 120 days after receipt of PO**

Initial JH Date 4/29/2021



## KB-20 SERIES

***BUILT WITH PRIDE IN THE USA***

The KB-20 is well-known for its quality, economic efficiency, durability, and user-friendly design. With a variety of options for boom length and trailer capacity, this series is ideal for all types of loading applications. This unit can be tailored to fit your specific needs. DO IT RIGHT with Pac-Mac!



**E-PAC-MAC.COM**

Manufactured by Hol-Mac Corporation  
P.O. Box 349 • Bay Springs, MS 39422 • 601-764-4121

Sourcewell 

Awarded Contract

Contract # 041217-HMC

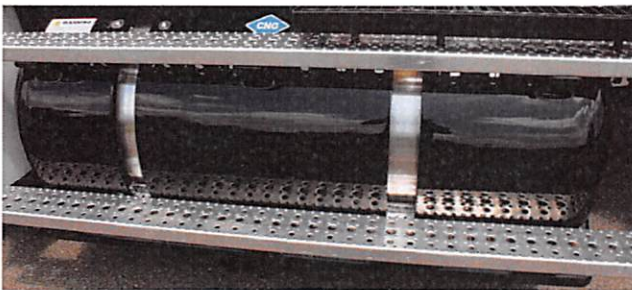
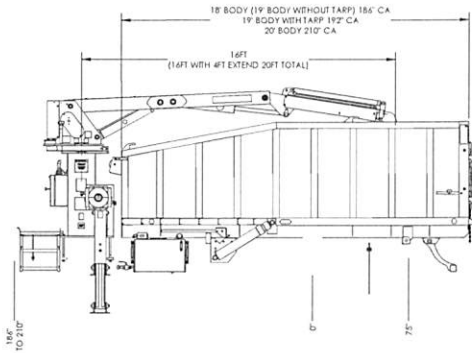


# KB-20 SERIES

## TECHNICAL DATA AND SPECIFICATIONS

### GENERAL SPECIFICATIONS

Height of boom to ground in lowest travel position (based on 37 in. chassis height)	11 ft.
Boom length	20 ft. (16 ft. with 4 ft. extension)
Optional boom lengths	16 / 17 / 18 ft. (fixed)
Boom rotation	270° non-continuous
Lifting capacity at 20 ft. (with bucket)	3,300 lbs. (standard) 4,500 lbs. (optional)
H-style outriggers	
Outrigger (extended)	11 ft. 8 in.
Outrigger (retracted)	8 ft.
Hydraulics	Tandem pump for simultaneous operation of multiple functions
Operator Controls:	
Standup	Individual levers or pilot-operated hydraulic joysticks
Rotating platform	Mechanical joysticks or pilot-operated hydraulic joysticks



Pac-Mac can accommodate a variety of CNG tank options including saddle tanks below the rail or back of cab, above the rail

### FEATURES

- Boom Height Alarm
- All hoses are enclosed within pedestal
- Pilot operated hydraulic joysticks
- H-style outrigger design
- Built-in holding valves for safety
- Smooth pads for minimal street damage
- Twin cylinders provide superior biting force (bucket)
- High strength tempered steel replaceable cutting edges (bucket)
- Anti-scalp design (bucket)
- 360 degree continuous rotation (bucket)
- Easy to use when handling heavy, bulky materials
- Complete discharge due to fully opening, swinging door(s)
- Bumper meets D.O.T. rear impact standards
- Twin telescopic dump cylinders
- 45 degree body tilt for complete cleanout
- Integral holding valves in main and tip boom cylinders for increased safety
- Ductile iron gland/piston, chrome rods, replaceable bronze bushings
- 1 year hydraulic warranty
- 3 year structural warranty
- 3 year warranty on gearbox and slewing ring

### OPTIONS

- Greaseless mechanical levers (optional hydraulic joystick)
- Hydraulic oil cooler
- Side arm hopper
- Door style options: single, double, or scow
- Tarp options: spring assist with arm, spring assist armless, electric with arm
- Customer specific light location
- "Outrigger Up" safety feature
- Optional pneumatic air latch for rear door
- Body up alarm
- Nylon bearing outriggers

### RECOMMENDED CHASSIS

\*Depends on loader configuration and options selected

Cab to axle (CA)	See Chassis Requirements
Front axle	12,000 lbs. (minimum) - single rear axle 14,000 lbs. (minimum) - tandem rear axle
Rear axle	21,000 lbs. (minimum) - single rear axle 40,000 lbs. (minimum) - tandem rear axle
GVW	33,000 lbs. (minimum) - single rear axle 54,000 lbs. (minimum) - tandem rear axle
Engine	250 HP (minimum)
Transmission	Automatic or manual
Frame	Minimum 1,500,000 RBM (150,000 PSI material)

### BODY

Length	18 / 19 / 20 ft.
Capacity	20 / 24 / 25 / 30 cubic yds.
Tilt	45° +/- 1°
Floor	3/16 in. (1/4 in. optional) 8 in. main sill 4 in. joist with 12 in. spacing
Sides	Side ribs 24 in. spacing
Lighting	L.E.D. Mid-body turn signals (where applicable) Smart light

### BUCKET

Width	4 ft.
Fully open	5 ft.

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 informational 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



Post Office Box 349  
160 Commerce Drive  
Bay Springs, MS 39422  
Phone: 601-764-4121  
Fax: 601-764-4282

SPECIFICATIONS FOR:

**KB-20H-HJ LOADER WITH TKB-1824/28 BODY**

THIS UNIT IS USED IN COLLECTION AND LOADING OF BULK TRASH, LIMBS, LEAVES, BUILDING MATERIALS, AND WHITE GOODS, OR OTHER MATERIALS OF THAT NATURE. UNIT IS MANUFACTURED BY HOL-MAC CORPORATION in an ISO 9000:2000 certified facility in Bay Springs, MS, USA.

**LOADER SPECIFICATIONS**

**1.0 BOOM:**

- 1.1 Boom length is 16ft. with 4ft. telescoping section to 20ft.
- 1.2 Minimum lift capacity is 3,300 Lbs. @ 20ft. including grapple.
- 1.3 Boom Pedestal is constructed of High Strength Steel, providing a 3:1 safety factor.
- 1.4 All hydraulic hoses located at the operator position (Boom Pedestal) is enclosed in the pedestal base. Access is provided by an easily removable steel cover.
- 1.5 Boom Pivot is mounted to the pedestal by means of a slewing ring bearing that has a minimum capacity of 513,000 lbs. static load and 186,000 Ft-Lbs. moment. Slewing ring is 3 1/2" thick and has an O.D. of 25 3/4". Boom pivot is constructed with a 9" O.D. safety retaining tube. The Boom Pivot Safety Retaining Tube is a minimum of 12" long and confines all hoses which pass through the Pedestal/Boom Pivot Assembly.
- 1.6 Boom rotation of 270 degrees minimum with mechanical stops for safety. Stops are welded into machined recesses to ensure non-movement. Pedestal stop is a minimum of three (3) square inches and has a nylon contact with pivot stops and a minimum width of five (5) inches.
- 1.7 Boom rotation is accomplished by a direct hydraulic swing drive through a slewing (bearing) ring & planetary gearbox capable of producing 250,000 inch-pounds torque.
- 1.8 Entire Boom Assembly is designed with a tensile strength to provide a safety factor of 3 to 1 at the rated load capacity.
- 1.9 Main Boom is constructed of (2) 4"x 8" High Strength Steel Tubing.
- 1.10 Tip Boom is constructed from a 5" x 7" High Strength Steel Tube.
- 1.11 Tip Boom has a 4' telescopic extension tip section constructed from 4"x 6" High Strength Steel Tube.

1.12 Main Boom is equipped with mechanical stops to prohibit hydraulic cylinders from bottoming out. Extend boom stops are easily accessible and removable for service.

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1.17 All operating functions are hydraulically controlled from the operator station located both on the left and right hand side of the loader.

1.18 Two stage tandem pump allows for multiple function control of the loader.

1.19 Operator controls are controlled by means of hydraulic joysticks located on both sides of the loader (two per side, three functions per joy stick).

1.20 A safety feature is provided to allow only one side of controls to function at a time. Joy sticks function only from one side at a time.

1.21 Joy sticks do not require any lubrication thereby eliminating frequent maintenance.

1.22 Outriggers are controlled by individual levers located conveniently in the center of the operator's platform.

1.23 Body dumping is controlled by a single lever at the center of the operator's platform separate from any other control. Proper enclosures are provided to protect operator from hydraulic fluid and components. All controls are clearly identified as to function.

1.24 Main Boom and Tip Boom cylinders incorporate integral holding valves thereby avoiding the use of external holding valves.

## **2.0 Trash Grapple\Bucket:**

2.1 Bucket has a 360 degree continuous rotating grapple with a replaceable hydraulic swivel. Swivel is not welded to or is an integral part of the grapple allowing replacement of component parts.

2.2 Bucket are opened and closed by (2) hydraulic cylinders with a closing force\ "bite" of 3,600 lbs.

2.3 Bucket is 4' long and capable of opening to 60 inches from lip to lip.

2.4 Bucket is fabricated with a bolt on replaceable H.S.H.C. steel cutting edge.

2.5 Bucket cylinders and hoses are enclosed by a removable steel cover.

### **3.0 Hydraulics:**

3.1 Reservoir is 45 gallons. It has a dual level/oil temperature gauge on side of tank. An in-tank suction strainer is included.

3.2 Filter is a 10-micron, return line replaceable filter mounted on outside of reservoir.

3.3 Cut-off valves are provided for both pressure and suction.

3.4 Main boom, tip boom and outrigger hydraulic cylinders contain pilot operated check valves as an integral part of each cylinder to prevent boom movement in the event of hydraulic hose failure. Integral pilot operated check valves are safer and more reliable than bolt on pilot operated check valves.

3.5 All hoses are rated at 4,000-psi working pressure.

3.6 Port tubing through the main boom is zinc plated steel tube.

3.7 Control valves have a 20 GPM rating.

3.8 Hol-Mac Corp. provides a computer printout at time of delivery showing particle testing of the hydraulic oil done just prior to the unit being shipped in order to illustrate cleanliness of Hydraulic System.

### **4.0 Power Source:**

4.1 Unit will be mounted on any chassis that meets the manufactures recommended specification with a heavy – duty clutch style (Hot Shift) PTO and a heavy – duty bi-rotational Tandem hydraulic pump.

### **5.0 Throttle Control:**

5.1 Unit has an electric operated throttle control to maintain proper engine speed when loader is operated under load. Switch for throttle control is mounted on operator's platform for operator's convenience.

5.2 Throttle speed-up will operate only when the transmission is in the neutral position.

### **6.0 Outriggers:**

6.1 Outriggers are extendable to a distance that will resist loads of 85% of the tipping moment under maximum rated load.

6.2 The outriggers are equipped with smooth pads to cause minimum damage to contacted surface.

6.3 Outriggers telescope horizontally in and out; and vertically up and down and operate independently by means of individual mechanical linkage controls. Controls are located a distinctive distance from the main boom controls.



6.4 Outrigger cylinders for stabilizing loader are mounted inside telescoping legs.

6.5 Outriggers retract to within the maximum highway width and extend to a maximum width to resist the design load moment.

6.6 Outrigger Cylinders contain holding valves on extend and retract functions to prevent outrigger leak down.

#### **7.0 Trash Body:**

7.1 24 or 28 cubic yard capacity.

7.2 18 foot body length.

7.3 Body is mounted with a minimum space of 60 inches between the cab and the front of the body.

7.4 Body floor is made of 3/16" sheet steel. ¼" sheet steel floor is available. Sides are formed to create the lower side bumper channel structure of the body.

7.5 Body walls are constructed with 10 gauge sheet steel. Wall stiffeners are a minimum of 11gauge formed channels placed on approximately 24-inch centers.

7.6 Body walls have a top rail made of 3"x 4"x ¼" rectangle tubing.

7.7 Wall stiffeners are welded to top rail and stiffeners are welded to the wall sheet.

7.8 Front body wall is 42 inches high with side body walls transitioning from 42 inches high to 60 inches high 8ft. from the body front.

7.9 Body full length main structural channel sills is 8 inch @ 11.5 lbs. per ft. Cross sills are 4 inch @ 5.4 lbs. per ft structural channel. Cross sills are placed on 12-inch centers.

7.10 Body has (2) equal width barn type rear doors 60 inches high swung completely around to each side wall with provisions to positively latch open for dumping.

7.11 Each door is hinged with (2) 1 inch hinge pins. Hinges are welded to body and door and contains easily accessible grease fittings. Door latch will secure both doors at the top and bottom.

7.12 Rear doors are fabricated from 10-gauge steel with a circumferential frame of 4-inch structural channel.

#### **8.0 Body Hoist:**

8.1 The hoist system is two 5" bore, two stage telescopic hydraulic cylinders rated @ 2,500 PSI working pressure mounted to provide a 45 degree dump angle. Left and right hoist cylinders are mounted outboard of the chassis frame for greater stability.

8.2 Body has two (2) body safety props installed one on each side of the chassis frame rails.



## **9.0 Lights and Reflectors:**

9.1 Conform to current state and federal standards.

9.2 Oval, amber LED strobes in rear corner posts of body with alternating flash pattern.

9.3 Reflective Safety Tape is on both sides and on the rear of body.

## **10.0 Paint:**

10.1 Body exterior receives (1) standard coat of high-grade primer and (2) coats of high-grade standard black enamel paint.

10.2 Body interior receives (1) coat of high-grade primer.

10.3 Loader receives one (1) coat of High-grade primer and two (2) coats of high grade enamel Red paint (Manufacturer Standard Color(s)).

## **11.0 Safety Rear Bumper:**

11.1 The Pac-Mac is the only loader in its class to have a rear safety bumper which meets U.S. Department of Transportation Federal Motor Carrier Safety Administration, part 571.233 for rear impact guards and part 571.224 for rear impact protection.

## **12.0 Warranty:**

12.2 Entire unit has a 1 year parts and labor warranty.

12.3 3 year warranty on gear box, slewing ring.

12.4 3 year structural warranty.

12.5 All Warranty is done on Customer's site (On-site Warranty repair). Customer are not responsible for transportation of unit for warranty work.

12.6 All proposals include training of operators and service personnel.

## **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 —3 year  
Non-Hydraulic Replacement Parts - 1 year  
Hydraulic Drive - 3 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.**

**Prepared by:**  
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*A proposal for:*  
**Madison County**

*Prepared by*  
**EMPIRE TRUCK SALES, INC.**  
*Jacob Vickers*

*Apr 28, 2021*

## **Freightliner M2 106**



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
<b>Price Level</b>			
PRL-23M	M2 PRL-23M (EFF:01/21/20)		
<b>Data Version</b>			
DRL-014	SPECPRO21 DATA RELEASE VER 014		
<b>Vehicle Configuration</b>			
001-172	M2 106 CONVENTIONAL CHASSIS	5,709	3,503
004-222	2022 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-002	STRAIGHT TRUCK PROVISION		
003-001	LH PRIMARY STEERING LOCATION		
<b>General Service</b>			
AA1-002	TRUCK CONFIGURATION		
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1UT	UTILITY BUSINESS SEGMENT		
AA4-011	FIXED LOAD 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		
995-091	MEDIUM TRUCK WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 12000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 21000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 33000.0 lbs		
<b>Truck Service</b>			
AA3-004	END DUMP BODY		



Data Code	Description	Weight Front	Weight Rear
A88-99D	EXPECTED TRUCK BODY LENGTH : 0.0 ft		
AF3-1W5	HOL MAC CORPORATION		
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in		

### Engine

101-21V	CUM B6.7 260 HP @ 2400 RPM, 2600 GOV, 660 LB-FT @ 1600 RPM		
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### Electronic Parameters

79A-075	75 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-007	PTO MODE ENGINE RPM LIMIT - 1100 RPM		
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED		
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
79W-001	ONE REMOTE PTO SPEED		
79X-005	PTO SPEED 1 SETTING - 900 RPM		
* 80P-998	NO FLEET SPEC FOR PARAMETERIZATION		
80G-002	PTO MINIMUM RPM - 700		
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		

### Engine Equipment

99C-021	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG21 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		
014-099	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER		
124-1D9	DR 12V 180 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
292-235	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES	10	
290-017	BATTERY BOX FRAME MOUNTED		

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Data Code	Description	Weight Front	Weight Rear
281-001	STANDARD BATTERY JUMPERS		
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
87P-001	CAB AUXILIARY POWER CABLE	5	
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8	
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR		
131-013	AIR COMPRESSOR DISCHARGE LINE		
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
128-1AR	CUMMINS ENGINE INTEGRAL BRAKE WITH VARIABLE GEOMETRY TURBO ON/OFF WITH BRAKE LAMPS	20	
016-1C3	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE		
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
239-001	STANDARD EXHAUST SYSTEM LENGTH		
237-052	RH STANDARD HORIZONTAL TAILPIPE		
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK	35	10
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
* 43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION LOCATE DEF TANK AT 2800		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
273-058	AIR POWERED ON/OFF ENGINE FAN CLUTCH		
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
110-003	CUMMINS SPIN ON FUEL FILTER		



Data Code	Description	Weight Front	Weight Rear
118-001	FULL FLOW OIL FILTER		
266-100	700 SQUARE INCH ALUMINUM RADIATOR		
103-036	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-016	RADIATOR DRAIN VALVE		
168-002	LOWER RADIATOR GUARD		
138-010	PHILLIPS-TEMRO 750 WATT/115 VOLT BLOCK HEATER	4	
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
134-001	ALUMINUM FLYWHEEL HOUSING		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-057	DELCO 12V 29MT STARTER WITH INTEGRATED MAGNETIC SWITCH		

### Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60
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### 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		



Data Code	Description	Weight Front	Weight Rear
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84J-000	ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84K-000	ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
353-027	VEHICLE INTERFACE WIRING CONNECTOR WITH PDM AND NO BLUNT CUTS, AT END OF FRAME		
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
362-823	CUSTOMER INSTALLED CHELSEA 280 SERIES PTO		
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION		
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		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

### Front Axle and Equipment

400-1A6	DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
402-049	MERITOR 16.5X5 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

Data Code	Description	Weight Front	Weight Rear
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
536-050	TRW THP-60 POWER STEERING		
539-003	POWER STEERING PUMP		
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR		
40T-001	MINERAL SAE 80/90 FRONT AXLE LUBE		
<b>Front Suspension</b>			
620-1F0	12,000# DUAL TAPERLEAF FRONT SUSPENSION	42	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
<b>Rear Axle and Equipment</b>			
420-1C8	DETROIT DA-RS-21.0-4 21,000# R-SERIES SINGLE REAR AXLE		
421-614	6.14 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	40	40
423-033	MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
440-006	REAR OIL SEALS		
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
41T-001	MINERAL SAE 80/90 REAR AXLE LUBE		
<b>Rear Suspension</b>			
622-003	23,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		120
621-001	SPRING SUSPENSION - NO AXLE SPACERS		

Data Code	Description	Weight Front	Weight Rear
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
623-005	FORE/AFT CONTROL RODS		
<b>Brake System</b>			
018-002	AIR BRAKE PACKAGE		
490-101	WABCO 4S/4M ABS WITH TRACTION CONTROL, WITH ATC OFF-ROAD SWITCH		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-002	STD U.S. FRONT BRAKE VALVE		
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		
479-012	AIR DRYER MOUNTED UNDER HOOD		
* 460-001	STEEL AIR BRAKE RESERVOIRS MOUNT BOTH AIR TANKS 70" BOC PER JHFD QU OTE # 1601261332 SAME AS HX7157 PER QUOT E # 1608261527		
607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD		
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)		
<b>Trailer Connections</b>			
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT		
<b>Wheelbase &amp; Frame</b>			
545-645	6450MM (254 INCH) WHEELBASE		
546-101	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	390	150
552-007	2450MM (96 INCH) REAR FRAME OVERHANG		
55W-009	FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-40	180
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 188.39 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 185.39 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 389.41		



Data Code	Description	Weight Front	Weight Rear
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 140.44 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 175.24 in		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 182.45 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
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		
565-001	STANDARD SUSPENSION CROSSMEMBER		

### Chassis Equipment

556-1AN	THREE-PIECE 14 INCH STEEL CENTER BUMPER WITH FLEXIBLE PLASTIC ENDS		
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
605-1AB	D15-16004-000 CENTER PUNCH TO MARK CENTERLINE OF REAR SUSPENSION ON FRAME WEB		
* 606-242	DRLG PREP FOR HOL MAC CORP.PER DWG HMC H OLE LAYOUT 1,REV '0', 06/20/2017		

### Fuel Tanks

204-192	50 GALLON/189 LITER RECTANGULAR ALUMINUM FUEL TANK - LH	20	
218-005	RECTANGULAR 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)		
122-1J2	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR AND HAND PRIMER	-5	
216-020	EQUIFLO INBOARD FUEL SYSTEM		



Data Code	Description	Weight Front	Weight Rear
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
<b>Tires</b>			
* 093-2C5	HANKOOK AL11 11R22.5 14 PLY RADIAL FRONT TIRES	10	
094-2C6	HANKOOK DL11 11R22.5 14 PLY RADIAL REAR TIRES		60
<b>Hubs</b>			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
<b>Wheels</b>			
502-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 6.18 INSET 2-HAND HD STEEL DISC FRONT WHEELS	26	
505-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS		52
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
<b>Cab Exterior</b>			
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTING		
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
678-001	LH AND RH GRAB HANDLES		
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE		
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
727-1AH	SINGLE 14 INCH ROUND POLISHED AIR HORN ROOF MOUNTED	4	
726-001	SINGLE ELECTRIC HORN		
728-001	SINGLE HORN SHIELD		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
78G-002	KEY QUANTITY OF 2		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-038	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL		
302-001	(5) AMBER MARKER LIGHTS		

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Data Code	Description	Weight Front	Weight Rear
294-017	INTEGRAL STOP/TAIL/BACKUP LIGHTS WITH 7 EXTRA FEET OF WIRE MOUNTED AT END OF FRAME		
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BH	DUAL WEST COAST MOLDED-IN COLOR MIRRORS		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-1AP	LH AND RH 8 INCH MOLDED-IN COLOR CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
729-001	STANDARD SIDE/REAR REFLECTORS		
768-043	63X14 INCH TINTED REAR WINDOW		
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-003	MANUAL DOOR WINDOW REGULATORS		
663-013	1-PIECE SOLAR GREEN GLASS WINDSHIELD		
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		

### Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR		
706-013	MOLDED PLASTIC DOOR PANEL		
708-013	MOLDED PLASTIC DOOR PANEL		
772-006	BLACK MATS WITH SINGLE INSULATION		
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER		
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING		
694-010	IN DASH STORAGE BIN		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-006	GRAY/CHARCOAL FLAT DASH		
720-002	2-1/2 LB. FIRE EXTINGUISHER	5	
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR		
702-002	BINARY CONTROL, R-134A		



Data Code	Description	Weight Front	Weight Rear
739-033	STANDARD INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-014	DOME LIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS		
655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS		
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
* 756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION		
760-235	2 MAN TOOL BOX MID BACK NON SUSPENSION PASSENGER SEAT	20	
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
763-101	BLACK SEAT BELTS		
532-001	FIXED STEERING COLUMN		
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

### Instruments & Controls

732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
87L-003	ENGINE REMOTE INTERFACE WITH PARK BRAKE AND NEUTRAL INTERLOCKS		
870-001	BLACK GAUGE BEZELS		
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		
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		



Data Code	Description	Weight Front	Weight Rear
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-070	ENGINE REMOTE INTERFACE WITH PRESET FAST IDLE		
163-004	ENGINE REMOTE INTERFACE CONNECTOR IN ENGINE COMPARTMENT		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-005	TRANSMISSION OIL TEMPERATURE INDICATOR LIGHT		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-043	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP - PARK BRAKE AND NEUTRAL INTERLOCK	10	
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
746-136	AM/FM/WB WORLD TUNER RADIO WITH AUXILIARY INPUT, J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF		
748-001	POWER AND GROUND STUDS IN/UNDER DASH		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
162-011	IDLE LIMITER, ELECTRONIC ENGINE		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		

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Data Code	Description	Weight Front	Weight Rear
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

### Design

065-000 PAINT: ONE SOLID COLOR

### Color

980-3F6 CAB COLOR A: N0006EA WHITE ELITE SS  
 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)  
 964-6Z7 BUMPER PAINT: FP24812 ARGENT SILVER  
 DUPONT FLEX  
 963-003 STANDARD E COAT/UNDERCOATING

### Certification / Compliance

996-001 U.S. FMVSS CERTIFICATION, EXCEPT SALES  
 CABS AND GLIDER KITS

### Raw Performance Data

AE8-99D CALCULATED EFFECTIVE BACK OF CAB TO  
 REAR SUSPENSION C/L (CA) : 185.39 in  
 AM6-99D CALC'D SPACE AVAILABLE FOR DECKPLATE :  
 182.45 in

### Sales Programs

\* PMY-2G3 BUSINESS QUOTE SALES PROGRAM

## TOTAL VEHICLE SUMMARY

### Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight <sup>+</sup>	6550 lbs	4175 lbs	10725 lbs
Total Weight <sup>+</sup>	6550 lbs	4175 lbs	10725 lbs



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## Extended Warranty

WAG-009 TOWING: 6 MONTHS/UNLIMITED MILES/KM EXTENDED TOWING  
COVERAGE \$550 CAP FEX APPLIES

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

(\*\*\*) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.

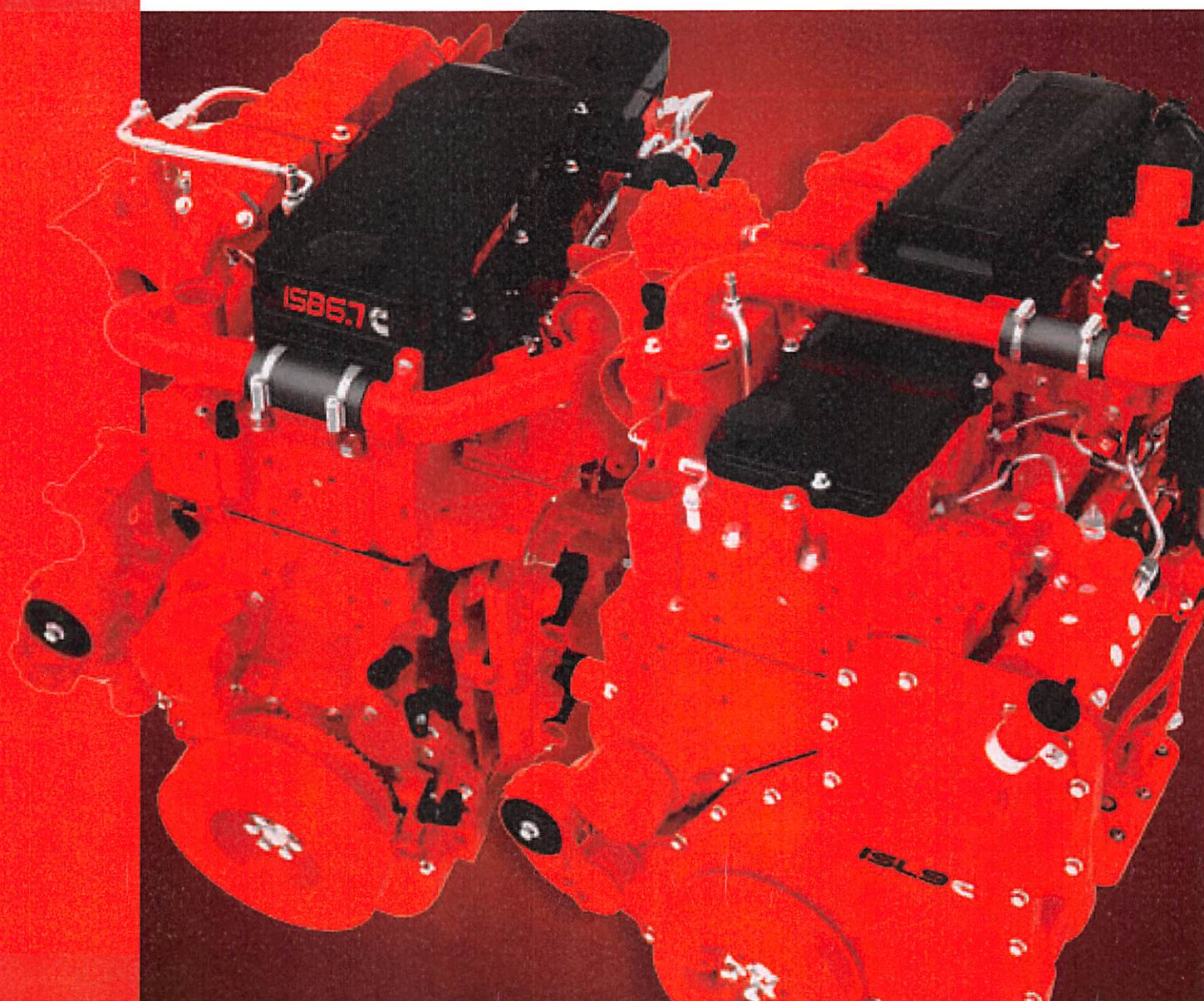






# Every™ Coverage.

North American Truck Coverages  
For 2013 ISL9 And ISB6.7 Engines.





# Every™ Confidence.

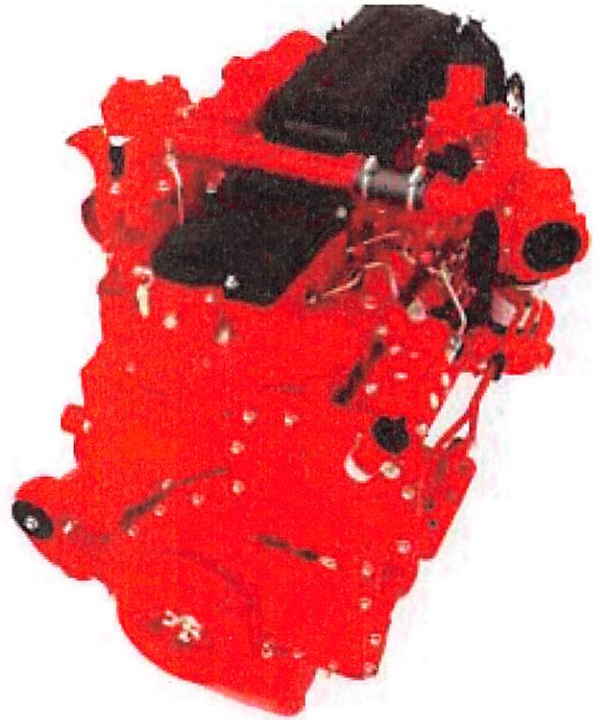
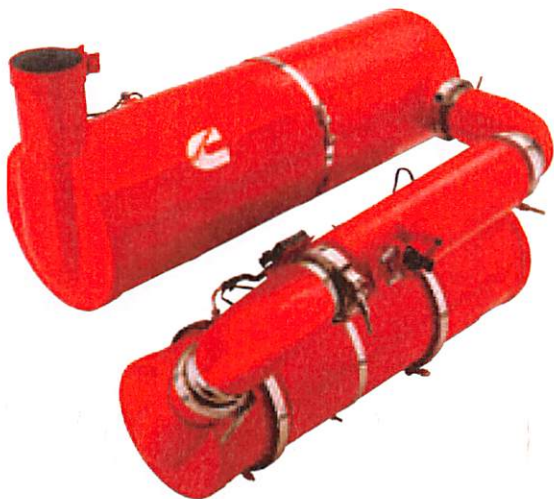
You can have confidence knowing that your Cummins 2013 engine is backed by the total coverage of Cummins base and extended warranty coverage plans.

Every major component from the air handling to the exhaust aftertreatment\* – including those in the Cummins Aftertreatment System – is included under the base warranty.

In addition to the base warranty, Cummins offers a selection of extended coverage plans that provide extra protection for your business against major unexpected repair expenses. These protection plans provide financial peace of mind, insuring you against unforeseen expenses for years to come. And they can be included in the financing of your new truck for just dollars a day.

Cummins extended coverage plans are honored at all authorized Cummins service locations and backed by Cummins Care. No matter where your business takes you, you've always got a Cummins-authorized service facility nearby, with over 3,500 locations in North America. So you can be assured that every contingency is covered. Best of all, those facilities will handle every bit of paperwork associated with your warranty repair.

\*Does not include air cleaner, intake pipes, exhaust pipes or mounting hardware



## **ISL9 Base Warranty.**

The ISL9 base warranty is good for 2 years/ 250,000 miles (402,336 km), whichever occurs first, and includes virtually everything at no additional cost:

### **2-Year/250,000-Mile (402,336 km) Coverage**

- 100 percent parts and labor on warrantable failures\*
- Travel or towing when an engine is disabled by a warrantable failure (from date of delivery through the first year)
- Consumables not reusable due to covered failure
- No deductible
- Includes aftertreatment

\*Warrantable failures are those due to defects in Cummins material or factory workmanship.

## ISB6.7 Base Warranty.

Cummins 6-cylinder ISB6.7 engine has coverage similar to that of the ISL9, except there is no mileage restriction. The ISB6.7 warranty is good for 2 years with unlimited mileage.

### 2-Year/Unlimited-Mileage Coverage

- 100 percent parts and labor on warrantable failures\*
- Travel or towing when an engine is disabled by a warrantable failure (from date of delivery through the first year)
- Consumables not reusable due to covered failure
- No deductible
- Includes aftertreatment



\*Warrantable failures are those due to defects in Cummins material or factory workmanship.

### Extended Coverage Means Added Security.

A Cummins Protection Plan is the most important travel insurance you can buy. Not only will it protect your business from unexpected expenses, but it will also ensure that you'll always get quality Cummins parts and professional Cummins service. There are two plans to choose from for ISL9 and ISB6.7 engines.

### Protection Plan 1

Security is knowing that you are protected by comprehensive protection, with options ranging from 3 to 5 years and 100,000 to 300,000 miles (160,934-482,803 km).

- Internal components and major engine systems including the turbocharger, water pump and fuel injectors and, new for 2013, the air compressor, fuel pump and select engine sensors
- Registered parts and labor on covered failures

### Protection Plan 2

Cummins Internal Protection Plan 2 covers you against major repair costs down the road, with registered parts and labor on major components and your choice of long-term options from 3 to 7 years and 100,000 to 300,000 miles (160,934-482,803 km).

- Internal components and major engine systems
- Registered parts and labor on covered failures

### Aftertreatment Extended Coverage\*

Extended coverage is also available for your Cummins Aftertreatment System. Options range from 3 to 5 years and 100,000 to 300,000 miles (160,934-482,803 km).

The coverage includes Cummins-supplied aftertreatment components, including:

- Diesel Oxidation Catalyst (DOC), Diesel Particulate Filter (DPF) and Selective Catalytic Reduction (SCR) assemblies
- Diesel Exhaust Fluid (DEF) dosing system
- Aftertreatment controls
- Ammonia sensor

\*Protection Plan 1 EPA 2013 of equal duration is required prior to the purchase of the Aftertreatment Extended Coverage.

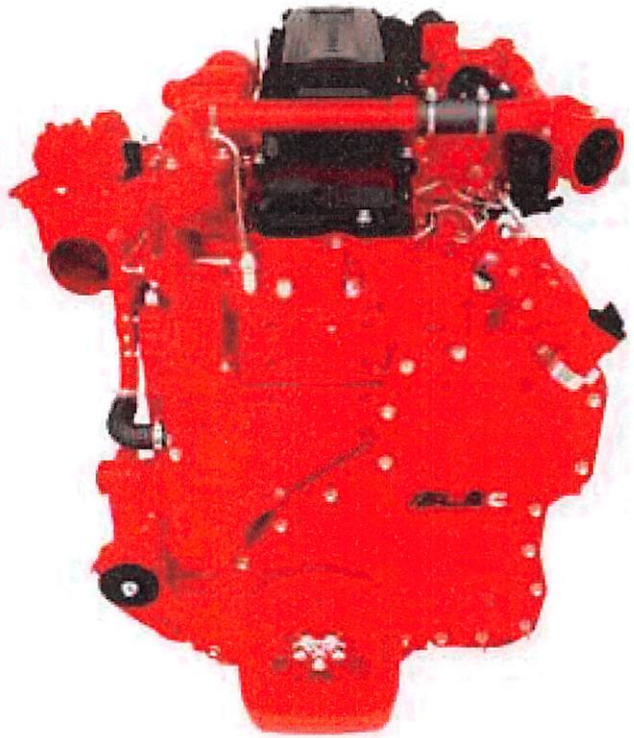
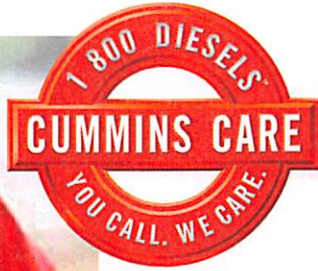


## 2013 ISL9 And ISB6.7 Extended Coverage Terms\*

SCR Assembly	<b>Aftertreatment Extended Coverage**</b>	<b>Protection Plan 1</b>	<b>Options are available up to 5 years/ 300,000 miles (482,803 km)</b>
Decomposition Reactor			
Mid-Bed Ammonia Sensor			
DPF Assembly			
Fuel Pump			
Air Compressor			
Select Engine Sensors			
Water Pump			
Turbo			
Fuel Injectors			
EGR Cooler, EGR Valve, EGR Mixer	<b>Protection Plan 2</b>	<b>Options are available up to 7 years/ 300,000 miles (482,803 km)</b>	
Cylinder Head Assembly			
ECM			
Pistons, Rings and Liners			
Lube Oil Cooler Assembly			
Cylinder Block Assembly			
Crankshaft Assemblies			
Front Gear Cover			
Oil Pan			
Connecting Rod Assembly			
Lube Pump Assembly			
Camshaft Assembly and Bushings			
Brake Housing, Bushings, Rocker Levers, Roller Pin, Roller, Crosshead Pin, Crosshead, Including Mounting Hardware and Gaskets			
Engine Cylinder Block Casting			
Engine Main Bearing Bolts			
Engine Cylinder Head Casting			
Engine Cylinder Head Capscrews			
Engine Crankshaft Forging			
Engine Camshaft Forging			
Cam Follower Housing			
Cam Follower Assemblies			
Engine Connecting Rods and Caps			
Engine Connecting Rod Bolts			
Intake Manifold Castings			
Rocker Lever Housings			
Rocker Lever Assembly			
Gear Train Gears			

\*Terms and conditions are subject to change.

\*\*Protection Plan 1 EPA 2013 of equal duration is required prior to the purchase of the Aftertreatment Extended Coverage.



### Leave Every Detail To Us.

For complete coverage details, including pricing, contact your local Cummins distributor or OEM dealer.

Ordering Cummins extended coverage is easy. Your local Cummins distributor or dealer can handle it for you when you buy your new ISL9- or ISB6.7- powered truck and include it in your financing, or you can buy it separately later on for up to 18 months\*.

If you experience a service need during the coverage period, call Cummins Care toll-free at 1-800-DIESELS™ (1-800-343-7357). Our Cummins Care representatives are standing by, every hour of every day, and they will check with nearby authorized Cummins distributors and dealers to locate a facility with an available technician and the right diagnostic tools to handle your equipment repair. Your Cummins representative will help get you to the nearest available location – with 3,500 authorized locations, there's sure to be one close by.

Simply show the servicing distributor/dealer your extended coverage certificate, and he or she will handle all the necessary paperwork and repairs to get you back on the road as quickly as possible.

\*After 12 months, a small administrative fee may be applied.







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Freightliner (FTL)



Run Smart™

## Freightliner Medium Truck

Coverage <sup>1</sup>		
Description	Time <sup>2</sup>	Distance <sup>2</sup>
Basic Vehicle	2 Years	Unlimited
Battery	1 Year	100,000 mi/161 000 km
Brightwork	6 Months	Unlimited
Cab Corrosion/Perforation	5 Years	Unlimited
Cab Structure	5 Years	Unlimited
Corrosion	6 Months	Unlimited
Crossmembers	5 Years	Unlimited
Diesel Emission 2010 <sup>3</sup>	5 Years	100,000 mi/161 000 km
Frame Rails	5 Years	Unlimited
GHG14 <sup>4</sup> (Light Heavy Duty Trucks)	5 Years	50,000 mi/80 500 km
GHG14 <sup>4</sup> (Medium Heavy Duty to Heavy Heavy Duty Trucks)	5 Years	100,000 mi/161 000 km
GHG14 <sup>4</sup> (Medium Heavy Duty to Heavy Heavy Duty Tractors)	5 Years	100,000 mi/161 000 km
GHG14 <sup>4</sup> Tire	2 Years	24,000 mi/38 400 km
Hybrid Transmission – Eaton <sup>5</sup>	3 Years	150,000 mi/240 000 km
Paint	1 Year	100,000 mi/161 000 km
Paint, Chassis	6 Months	Unlimited
Front Axle <sup>6</sup>	2 Years	Unlimited
Rear Axle	2 Years	Unlimited
Transfer Case	2 Years	Unlimited
Transmission <sup>5</sup>	2 Years	Unlimited
Detroit Front Axle <sup>6</sup> (File Direct)		
Post-Model Year 2011 <sup>7</sup>	2 Years	Unlimited
Post-Model Year 2011 <sup>8</sup>	4 Years	Unlimited
Detroit Rear Axle (File Direct)		
Post-Model Year 2011 <sup>7</sup>	2 Years	Unlimited
Post-Model Year 2011 <sup>8</sup>	4 Years	Unlimited
Detroit DT-12 Transmission <sup>5,9</sup> (File Direct)	5 Years	750,000 mi/1 200 000 km

<sup>1</sup>Coverage may vary; check vehicle's actual warranty coverage online via OWL's *Coverage Info/Check Coverage* screen.

<sup>2</sup>Time or distance, whichever comes first

<sup>3</sup>Applies to vehicles equipped with EPA 2010 compliant diesel engines.

<sup>4</sup>Applies to models 2013 and later domiciled in the United States, check actual warranty online via OWL's *Coverage Info/Check Coverage* screen for coverage listed as GHG14...".

<sup>5</sup>Customers will have only one (1) type of transmission coverage, depending on how the vehicle is spec'd.

<sup>6</sup>Front axle coverage is also applicable to gliders.

<sup>7</sup>Medium Duty – General Service: Warranty coverage is determined by Gross Combination Weight Rating, road surface, and vocation.

Please see [www.ddcsn.com](http://www.ddcsn.com) for specific coverage details.

<sup>8</sup>Medium Duty – General Service Plus: Warranty coverage is determined by Gross Combination Weight Rating, road surface, and vocation.

Please see [www.ddcsn.com](http://www.ddcsn.com) for specific coverage details.

<sup>9</sup>Detroit Transmission: Warranty coverage is determined by Gross Combination Weight Rating, road surface, and vocation. Please see [www.ddcsn.com](http://www.ddcsn.com) for specific coverage details.

**Warranty Statement & Warranty Coverage Descriptions follow on page two of this document.**

The information provided in this document is for general information only and is not offered as customer's warranty.

This coverage may be superseded without notification.

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# Warranty Statement

## 1.1 New Vehicle Coverage

The following section outlines Company standard warranty coverages for all Company vehicles, apparatus or chassis or cabs sold by Daimler Trucks North America and domiciled in the USA (50 states and Washington, D.C.) and Canada. This information is also included in the Owner's Warranty Information Booklet.

See Warranty Coverage Descriptions for standard warranty coverages by make and model. Additional coverage may apply, verify actual coverages with your local dealership for specific vehicle warranty.

## 1.2 New Vehicle Limited Warranty

Under this New Vehicle Limited Warranty ("Warranty"), Company warrants that each new vehicle will be free from defects in material and workmanship that occur under normal use within the applicable warranty period, subject to certain limitations and exclusions as specified in this document.

This limited warranty applies only to new vehicles sold by an authorized Daimler Trucks North America (DTNA) dealer or ordered directly from DTNA; vehicles sold at auction or as a result of repossession retain the warranty coverage from the original in-service date or factory invoice date if the vehicle has not been warranty registered.

Daimler Trucks North America LLC reserves the right to reduce or remove coverage on vehicles in salvage condition.

This Warranty covers all components and parts unless specifically covered by other warranties or otherwise excluded by this document.

## 1.3 Limitations

This Warranty does not apply to vehicles that are sold or domiciled outside of the United States (50 states and Washington, D.C.) or Canada.

This Warranty does not apply to engines, Allison transmissions, tires, or other components or parts that are not manufactured by Company and that are warranted directly by their respective manufacturers. Progressive damage caused by these manufacturers' components to any other parts including, but not limited to, parts installed by Company is excluded from Company warranty coverage. With respect to the foregoing, Company makes no warranty whether express, implied, statutory or otherwise including, but not limited to, any warranty of merchantability or fitness for a particular purpose.

THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF ANY KIND WHETHER WRITTEN, ORAL, OR IMPLIED INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY SPECIFICALLY EXCLUDES ANY OTHER

WARRANTIES OR CONDITIONS PROVIDED FOR BY LAW, WHETHER STATUTORY OR OTHERWISE.

COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, ANY DEFECTIVE COMPONENT OR PART. SUCH REPAIR OR REPLACEMENT SHALL BE WITHOUT COST TO PURCHASER WHEN PERFORMED WITHIN THE APPLICABLE WARRANTY PERIOD (TIME, DISTANCE, OR HOUR LIMIT, WHICHEVER OCCURS FIRST).

Purchaser must notify Company within the applicable warranty period, of any failure of the vehicle to comply with this Warranty and Purchaser must, at Purchaser's expense, promptly return the vehicle to an Authorized Service Facility for inspection and repair or replacement of any defect in material or workmanship occurring within the applicable warranty period. During New Vehicle coverage, warranty reimbursement will not be paid on repairs performed by customers on their own vehicles without a current Customer Performed Warranty Agreement (CPWA).

The vehicle must be maintained and serviced according to the prescribed schedules outlined in the Driver's/Operator's and Maintenance Manuals. Receipted bills and other evidence that required maintenance and service have been performed are required by Company as a condition of this Warranty.

After the Company's obligations under this Warranty expire, all liabilities of Company to Purchaser under this Warranty shall terminate. Repairs made under this Warranty do not constitute an extension of the original Warranty period for the vehicle or for any specific component or part.

To the extent that any provision of this Warranty contravenes the law of any jurisdiction, such provision shall be inapplicable in such jurisdiction, and the remainder of the warranty shall not be affected.

## 1.4 Purchaser's Exclusive Remedy

THIS WARRANTY SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST COMPANY, WHETHER IN CONTRACT, UNDER STATUTE (INCLUDING STATUTORY PROVISIONS AS TO CONDITIONS AS TO QUALITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF GOODS SUPPLIED PURSUANT TO THE CONTRACT OF SALE), WARRANTY, TORT, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY.

## 1.5 Limitation of Liability

COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE COST TO REPAIR OR REPLACE, IN COMPANY'S SOLE DISCRETION, THE DEFECTIVE COMPONENT OR PART THAT IN NO EVENT SHALL EXCEED THE FAIR MARKET VALUE OF THE VEHICLE AT THE TIME THE DEFECT IS DISCOVERED.

IN NO EVENT SHALL COMPANY BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, INJURIES TO PERSONS OR DAMAGE



TO PROPERTY, LOSS OF PROFITS OR ANTICIPATED PROFITS, OR LOSS OF VEHICLE USE.

## 1.6 Exclusions

The following components, parts, or conditions are specifically excluded from coverage under this Warranty.

### AERODYNAMIC WHEEL COVERS

Aerodynamic wheel covers are excluded from coverage under this Warranty

### AIR SPRINGS

Tolerance buildup can occur during the assembly process of the rear suspension and rear cab air springs, and can cause the springs to have the appearance of being crooked, misaligned or improperly installed. This tolerance buildup is not detrimental to the operation of the vehicle and will not have an effect on either the quality of the ride or the durability of the components or vehicle. Straightening of these springs is not covered under this Warranty.

### ALIGNMENT OF AXLES/WHEELS/STEERING

Each DTNA vehicle manufacturing plant uses an integrated alignment system to align axles and wheels and to center the steering wheel to Daimler Trucks North America LLC specifications. Realignment or readjustment of these items, including steering stops and steering poppets, is not covered under warranty.

Any special alignment settings at the request of the Owner must be handled between the Dealer and Owner after delivery from factory. These special adjustments are not covered under Warranty.

### AXLE BREATHER VENTS

During the vehicle manufacturing process, an oil run or drip stain may appear at the breather vent. Removing the vent, applying pipe sealant to the threaded vent fitting and re-installing the vent is unnecessary. Removing the axle breather vent and re-sealing the threaded fitting is not covered under this Warranty.

### CAB INTERIOR COMPONENTS

The repair or replacement of cab interior components that are rendered unserviceable due to normal wear or abuse are not covered under this Warranty.

These components include, but are not limited to:

- Curtains
- Floor coverings (including floor mats)
- Painted trim components
- Steering wheel
- Steering wheel wrap
- Upholstery
- Window shades

### CHROME SURFACES, ALUMINUM AND STAINLESS STEEL COMPONENTS

The following items ARE covered under this Warranty:

- Chrome peeling off in sheets
- Chrome cut at mounting bolts due to over-torque at the factory
- Bubbles in the chrome that are not caused by rock chips and/or general rust conditions
- Isolated rust along seams or welds

The following items are NOT covered under this Warranty:

- General rust, for example, rust on the unfinished backside of a bumper
- Dimpling at the mounting bolts
- Staining, bluing, and/or yellowing that can be cleaned with a quality cleaning-product
- Rust, pits, and/or nicks caused by road wash or road debris breaking the chrome surface
- Streaks/stains/corrosion caused by severe wash solutions or corrosive road salts/chemicals

Claims pertaining to failures of chrome surfaces, aluminum, and stainless steel components will not be processed unless a clear digital picture is provided that adequately shows the defect.

### CLUTCH ADJUSTMENT

Clutch adjustments are normally required due to clutch wear and are considered normal maintenance. However, if the clutch adjustment is found to be outside of Company specifications during, or prior to, in-service of the vehicle, a warranty claim will be accepted on a one-time basis.

Claims for clutch adjustments will not be accepted unless the adjustment is found to be outside of Company specifications using the special clutch adjustment measuring tools provided by Company (e.g., adjusting the clutch to satisfy feel will not be accepted as warranty).

### COMPETITION

Warranty will become void on any vehicle that is used in competition, including but not limited to:

- Racing
- Tractor pulls
- Other motor sports

### CONSUMABLE PARTS

Parts that are subject to consumption during their normal service life and are routinely replaced during normal maintenance services are covered up to 15,000 miles (24 000km) for all Daimler Trucks North America LLC vehicles except for Thomas Built Bus (TBB) bodies and chassis. TBB consumable parts are covered up to 30 days from date of in-service.

These items are:

- Antennas
- Ashtrays
- Belts
- Brake Linings
- Cigarette lighter assembly
- Clutch brake
- Clutch linings
- Data logger batteries
- Desiccant cartridges
- Fire extinguishers
- Fluorescent ballast and tubes
- Fuses
- Gladhand
- Hosetennas
- Light bulbs
- Mattresses
- Mud flaps
- Mud flap mounting brackets
- Caps (including, but not limited to, DEF, fuel, radiator, surge tank)
- Receiver-dryer filter
- Trailer air hoses
- Trailer electrical cables



- Windshield washer nozzles
- Wiper arms and blades (TBB makes – wiper blades only)

Consumable parts NOT covered under this Warranty include, but are not limited to, the following:

- Antifreeze
- Filters (fuel, air, oil, water)
- Fluids (unless low due to a warrantable failure)
- Lubricant

### **CORROSION**

A detailed list of exclusions for CORROSION is listed under Warranty Coverage Descriptions.

### **DAMAGE**

The following are not covered under this Warranty:

- Damage caused by use of the vehicle in any application that is not approved or is inconsistent with build specifications
- Damage resulting from improper use or misuse or abuse, negligence, improper operation, improper or insufficient maintenance (including, but not limited to failure to maintain vehicle as outlined in the driver's/operator's and maintenance manuals), overloading, unauthorized modifications, accidents, or operation at excessive speeds
- Environmental damage, including airborne fallout (including chemicals, tree sap, etc.), or other atmospheric conditions, hailstones, or other acts of nature
- Damage caused by road salts/chemicals or cleaning solvents, detergents or compounds
- Storage deterioration including damage caused by improper or insufficient storage or maintenance
- Damage caused by road hazards or road conditions
- Damage caused during shipping/transport after initial delivery of vehicle
- Damages (including peeling or flaking) caused by high-pressure washing or steam-cleaning
- Damages occurring after in-service (e.g., from rock chips)
- Damages caused by customer-installed sealer in air conditioning systems
- Damages caused by engine horsepower/torque upgrades
- Damage due to vibration associated with misapplication or improper operation of drivetrain components
- Damage due to terrorist activities
- Damage due to acts of war

### **ENGINE**

The engine, including all of its components as supplied by the engine manufacturer, is not covered under this Warranty, but is warranted separately by the manufacturer of the engine. For engine warranty or service, contact the engine manufacturer's authorized sales and service facility.

### **ENGINE BRAKES, AIR COMPRESSORS, AND OTHER PROPRIETARY ENGINE COMPONENTS**

The engine manufacturer installs most air compressors and engine brakes. Any failure of a proprietary engine component or Jacob® Brake component must be filed directly to the engine manufacturer. Failures on non-proprietary engine components can be filed through DTNA.

### **EXHAUST SYSTEM CLAMPS**

During the early life of the vehicle or when the engine is cold, many exhaust clamps exhibit a soot trace. This condition is self-correcting and does not require adjustment, tightening, or replacement of the clamp. Claims for adjusting or tightening will not be paid under warranty.

### **FIFTH WHEELS**

Adjustment of the locking mechanism, bushings, slide locking plungers, and the repair or replacement of lock guards are considered routine maintenance and are not covered under this Warranty.

### **GLASS, MIRRORS, LENS**

Glass, mirror, or lens breakage or chips or scratches of glass, mirrors, or lenses are not covered by this Warranty.

### **MISAPPLICATION OF VEHICLE**

The warranty on any vehicle used inconsistent with its specified vocation/application will be downgraded to the warranty that is consistent with the vehicle use. Any and all claims associated with the misapplication of the vehicle will be subject to chargeback.

### **MISCELLANEOUS EXPENSES**

Premium charges and work not directly related to the repair or replacement of a warranted part are not covered under this Warranty. Examples include, but are not limited to:

- Federal, state, provincial, and local taxes
- Travel expenses
- Loss of revenue
- Customer labor, including overtime labor
- Downtime
- Driver's expenses
- Cost of rental equipment
- Loss of cargo, including perishable cargo
- General housekeeping supplies (i.e., rags, solvents, sweeping compounds, coveralls, etc.)
- Communication charges
- Towing/road call assistance (unless coverage is specifically stated in the applicable warranty coverage table)
- Repair or replacement of optional items not sold or installed by company
- Removal or replacement of dealer, body builder, or customer installed equipment
- Environmental fees, cleanup, or other charges
- Cost of emergency services

### **MODIFICATIONS TO ORIGINAL EQUIPMENT**

Company does not warrant vehicle component or chassis modifications, or equipment installations arranged by Dealers or Customers. In addition, the extra time necessary to remove body builder installed items and/or equipment to work on a warranted repair is not covered under this Warranty unless Company sells the complete chassis/body/equipment as a package.

If Dealers or Customers perform any vehicle modifications or equipment installations, to the extent these modifications or equipment installations adversely affect other vehicle components or vehicle performance, Company shall not accept any product liability or claims under the terms of the vehicle warranty. These claims become the sole responsibility of the person performing the modifications or equipment installations.



**PAINT**

The following exclusions to paint warranty include, but are not limited to:

- Complete chassis re-painting to repair paint damages
- Damages occurring after in-service (e.g., from rock chips)
- Peeling/flaking caused by high-pressure washing or steam cleaning
- Rusting of painted bumpers
- Removal and/or replacement of decals, striping, and/or lettering not applied by Company
- Specific areas of the vehicle are deliberately not painted or are not painted to any standard; paint repairs are not warrantable to such areas. These areas include:
  - Underside of the hood, including the inside of the wheel wells
  - Underside of the roof-mounted air fairings
  - Underside of the exterior sun visor
  - Inside of the side-mounted air fairings
  - Inside of the bumper
  - Aftertreatment devices

**Gloss**

Gloss Warranty claims pertaining to gloss issues on vehicles painted with low-gloss colors (identified in the Data Books) will not be covered under this Warranty.

**SHIP LOOSE ITEMS AND COMPONENTS**

During the manufacturing process, certain vehicle components are normally placed in the cab of the vehicle or strapped down to the chassis for security reasons. It is the Dealer's responsibility to mount these "ship loose" items in the correct location on the vehicle. Mounting of "ship loose" items will not be covered under warranty.

These items include, but may not be limited to, the following:

- Aerodynamic wheel covers
- Antennas
- Fire extinguishers
- Trailer air hoses
- Trailer electrical cables
- Winter fronts
- Tire inflation hoses
- Spare wheels/tires
- Chrome lug nut covers
- Driver's pouch
- Jacks

Daimler Trucks North America has established a Roof Fairing Removal program in order to reduce transport related damage. The Transporter will remove the fairing during the decking process and secure the fairing on the frame rail of the unit. Benefits for this program include fewer units towed in reverse and an overall improved delivery process.

Some units will continue to be received with the fairing collapsed. It is the Dealer's responsibility to mount these fairings correctly. Claims for mounting of these collapsed fairings will not be covered under warranty.

Those units received with the fairing removed, DTNA warranty will reimburse for the re-installation of the roof fairing prior to delivery to the end customer.

If vehicle is drop shipped directly to customer:

Transporter notifies customer that roof fairing has been removed for transport and arranges for re-installation prior to or at delivery.

- If customer has facilities for re-installation of roof fairings, then fairings will be re-installed at final delivery location.
- If customer does not have facilities to re-install fairings, transporter will arrange with nearest authorized DTNA dealership to have fairings re-installed and shuttle units to customer location at no additional cost to our customer.

**TRANSMISSIONS**

Allison transmissions and components are not covered under this Warranty, but are warranted separately by Allison. Information regarding Allison's warranty is provided for informational purposes only and is subject to change. For warranty or service information, contact Allison's authorized sales and service facility.

The Detroit DT-12 Transmission is not covered under this Warranty. Please see [www.ddcsn.com](http://www.ddcsn.com) for coverage details.

**ROUTINE MAINTENANCE**

Routing maintenance, servicing, and adjustment, as defined in the applicable Vehicle Maintenance Manual and Driver's Manual, are excluded from Warranty.

Periodic adjustment or re-torque of wheel bearings, wheel lug nuts, and suspension U-bolts are considered maintenance adjustments and are not covered under warranty.

Vibrations, squeaks, rattles, loose fittings/clamps, hose fitting leaks, loose nuts/bolts/screws, and loose electrical connections may develop during the initial trip(s) of the vehicle and these types of repairs/adjustments are covered under warranty one time during the following applicable initial operating periods unless excluded in the paragraphs below.

Reminder: After the following initial operating periods, these developments are the result of use and their repair/adjustment activities are considered routine maintenance and thus excluded from warranty.

**INITIAL OPERATING PERIOD**

The Initial Operating Period (IOP) for Daimler Trucks North America LLC vehicles is as follows:

Make	Initial Operating Period
Freightliner, Sterling, Western Star	Up to 15,000 miles/ 24 000 km
Freightliner Custom Chassis Corporation (FCCC)	Up to 25,000 miles/ 40 000 km
Thomas Built Bus (TBB) bodies and TBB chassis <sup>a</sup>	Up to 6 months from date of in-service

<sup>a</sup>. TBB applications utilizing FCCC chassis retain the FCCC IOP separate from the TBB body.

See CONSUMABLE PARTS elsewhere in this section.

Exclusions from warranty during the IOP are:

- Cab, hood, and fender-mounted mirrors are adjusted at the factory but may be retracted by the transporter to prevent damage during transport. Subsequent adjustments and tightening of mirror



mounting hardware are considered part of the routine preparation of the vehicle before Customer delivery. Claims for adjusting the mirrors or tightening of the attaching hardware will not be paid under warranty during or after the initial operating period.

- Claims for re-routing of electrical wiring, hoses, or lines which meet Daimler Trucks North America's routing standards will not be paid under warranty during or after the initial operating period.
- Final preparation of the vehicle for Customer delivery to include cleaning/vacuumping interior of cab, washing windows, washing the exterior of the vehicle, polishing exterior chromed or painted surfaces are considered as ordering-Dealer responsibilities. Claims for these activities will not be paid under warranty during or after the initial operating period.

### TEST VEHICLES

Any vehicles being used in testing or used to test specific components must be identified to the Warranty Department and accommodations must be made for claims that relate to the test item(s).

Any vehicles used in endurance testing, such as the Altoona Test, are void of all warranty, new or used.

### TIRES AND TIRE BALANCING

The tires are not covered under this Warranty, but are warranted separately by the tire manufacturer. Tire balancing is not covered under warranty.

## 1.7 Transfer of Warranty

This Warranty is transferable to a subsequent Owner if it has not expired. To ensure the Owner receives proper warranty recognition, the ownership information should be updated in the Company system.

## 1.8 Change of Owner Address Information

To ensure Company's ability to reach the current Owner with Recall and Field Service campaign information, the Owner's information must be updated whenever there is a change to the Owner's name or address.

## 1.9 Product Improvement

Company reserves the right to make improvements or changes to the product at any time without incurring any obligation to make such changes or improvements to any other vehicle.

## 1.10 Owner's Responsibilities

It is the Owner's responsibility to ensure the vehicle is maintained as outlined in the Driver's/Operator's and Maintenance Manuals. It is important that the new Owner becomes familiar with the contents of the warranty information. When the Owner first receives the vehicle, Dealer should review the Owner's Warranty Information booklet with the Owner.

To initiate warranty, customer must complete and sign the Warranty Start Form (WAR275). Dealer must attach the Warranty Start Form to the Product Registration screen in OWL.

# Coverage Descriptions

## Axles

Coverage includes all factory-installed front axles; rear axles; steer axles; drive axles; tag axles; and pusher axles. Detroit axles are warranted directly through Detroit. *Excludes any axle installed by a dealer or body builder.*

### Detroit Axle(s)

All warranty inquiries and claims are filed directly to Detroit Axles. Please see [www.ddcsn.com](http://www.ddcsn.com) for specific coverage details.

### Drive Axle(s)

Coverage includes axle housing, carrier assembly, differential assembly, power divider, axle shafts, and gaskets and seals. *Excludes suspension and torque rod brackets, tie rod ends, wheel end equipment, wiring, yokes, and attaching hardware.*

### Front Axle(s)

Coverage is for non-Detroit front axle(s) only. Coverage includes I-beam, steering knuckles, differential on drive steer axle, spindles, kingpin bearings, and steering arms. *Excludes tag axle(s), pusher axle(s), wheel end equipment, steering linkage components, driveline(s), U-joints, and kingpin bushings/kingpin seals.*

### Pusher Axle

A pusher axle is a non-driven, weight-bearing axle that can be raised when not required to bear a portion of the load. Since the pusher axle can be of many different configurations, warranty coverage includes all components included in the individual build specification of each individual application.

### Rear Axle(s)

Coverage is for non-Detroit rear axle(s) only. Coverage includes axle housing, carrier assembly, differential assembly, power divider, axle shafts, and gaskets and seals. *Excludes tag axle(s), pusher axle(s), suspension and torque rod brackets, wheel end equipment, wiring yokes, driveline(s), U-joints, and attaching hardware.*

### Steer Axle(s)

Coverage includes I-beam, steering knuckles, differential on drive steer axle, spindles, kingpins, kingpin bearings and steering arms. *Excludes wheel end equipment, tie rod ends, steering linkage components, kingpin bushings, and king pin seals.*

### Tag Axle

A tag axle is a non-driven, continuous weight-bearing axle. Since the tag axle can be of many different configurations, warranty coverage includes all components included in the individual build specification of each individual application.

## Battery

Coverage includes Alliance Brand Batteries only; claims for all other brands must be submitted directly to the supplier. Includes starting battery assemblies and factory-installed APU battery assemblies. *Excludes non-*



Alliance Brand batteries, battery cables, battery mounting box and hardware.

### Basic Chassis

Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty or by special agreement or described as having a different time, or distance or hours, or listed separately on each new vehicle warranty coverage chart.

### Basic Vehicle

Coverage includes all factory-installed components of the vehicle/chassis that are not excluded elsewhere in the warranty, or by special agreement or described as having a different time or distance, or listed separately on each new vehicle warranty coverage chart.

### Brightwork

Coverage includes all factory-installed components with chrome, polished aluminum, or polished stainless steel surfaces. *Excludes any damage backside of bumpers, and concealed or inner surfaces.*

### Cab Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cab and integral sleeper structure and sleeper box (if applicable) due to corrosion from within. *Excludes all conditions of rust or corrosion that has not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scratches.*

### Cab Structure

Coverage includes cab and integral sleeper structural components, structural components of factory-installed sleeper boxes (if applicable), sheet metal panels, doors, and hoods. *Excludes all bolt-on components including door and hood hinges, latches, guides, and other mounting hardware.*

### Corrosion

Coverage provides warranty against corrosion to any metal or metal alloy part of the vehicle. Rust or corrosion to specific components and/or caused by certain conditions are excluded from all Company warranty coverage and will not be paid under Basic Vehicle, Cab Structure, Cab Corrosion, or Aftermarket Parts Warranty.

*Exclusions to corrosion warranty include, but are not limited to, the following:*

- *Corrosion caused by general rust (for example, rust on the unfinished backside of a bumper)*
- *Surface rust caused by chips or scratches in the paint or chrome surfaces*
- *Corrosion caused by high-pressure washing, severe wash solutions, cleaning solvents, detergents, compounds*
- *Corrosion caused by salinity in the environment or corrosive salts and/or chemicals used on the road surface.*

- *Corrosion caused by acid rain or other industrial fallout*
- *Corrosion due to improper prevention measures during storage or use*
- *Corrosion or rust on tone rings, rotors or drums (rotor exclusion does not apply to hydraulic discs with Magna-Coat Rotors)*
- *Corrosion due to environmental damage (including ocean spray); airborne fallout (includes chemicals, tree sap, etc.), or other atmospheric conditions or other acts of nature*
- *Corrosion due to improper use, misuse or abuse, negligence, including improper or insufficient maintenance*

### Cowl Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cowl due to corrosion from within. *Excludes all conditions of rust or corrosion that have not resulted in rust-through or perforation as well as surface rust or corrosion caused by non-adhesion. Excludes any damage to the paint such as chips or scratches.*

### Cowl Structure

Coverage includes cowl structural components, sheet metal panels, and hood. *Excludes all bolt-on components including hood hinges, latches, guides, or other mounting hardware.*

### Crossmembers

Coverage includes crossmembers, gussets, and huck-mounting bolts that attach gussets to crossmembers and gussets/crossmembers to frame rails. *Excludes any bolt-on item attached with either conventional or huck bolts.*

### Driveline

Coverage includes driveshaft tubing, U-joints, yokes, support bearings, and splines.

### Frame Rails

Coverage is limited to breaking or cracking of factory-installed frame rails, frame rail liners, frame rail extensions, and any item(s) factory welded to them. *Excludes all bolt-on items regardless if attached with conventional or huck bolts.*

### GHG14\*

Daimler Trucks North America LLC (DTNA) warrants that its vehicles are (1) designed, built and equipped so as to conform, at the time of sale, with requirements of vehicle manufacturers whose vehicles are designed to meet applicable 2014 and later U.S. Environmental Protection Agency and National Highway Traffic and Safety Administration Standards greenhouse gas and fuel efficiency standards, and (2) free from defects in material and workmanship which cause the vehicle to fail to conform with the vehicle manufacturer's requirements for all vehicle emission control items listed below.



\*Coverage name/description may vary, check actual warranty online via OWL's *Coverage Info/Check Coverage* screen for coverage listed as "GHG14..."

### GHG14 Tire\*

Daimler Trucks North America LLC (DTNA) warrants that its vehicles are (1) designed, built and equipped with tires that conform, at the time of sale, with requirements of vehicle manufacturers whose vehicles are designed to meet applicable 2014 and later U.S. Environmental Protection Agency and National Highway Traffic and Safety Administration greenhouse gas and fuel efficiency standards, and (2) those tires are free from defects in material and workmanship which cause the vehicle to fail to conform with the vehicle manufacturer's requirements for a period of 2 years or 24,000 miles, whichever occurs first. Claims for failures under this coverage are filed directly to the tire manufacturer.

\*Coverage name/description may vary, check actual warranty online via OWL's *Coverage Info/Check Coverage* screen for coverage listed as "GHG14..."

### Glider

An incomplete vehicle which may be ordered with or without engine and/or major drivetrain components; warranty coverage includes all components as specified in the specific build specification.

### Hybrid Transmission – Eaton

Eaton requires that only hybrid-authorized dealerships work on units equipped with Eaton hybrid parts. Pre-authorization is required prior for repair of these vehicles in order to obtain technical assistance and a pre-authorization number for replacement parts. Eaton hybrid parts will be shipped directly from Eaton and will not be stocked in the PDCs due to the short shelf life and low volume. The following hybrid parts are covered under this Warranty: power electronics carrier (PEC), motor generator, inverter, DC/DC converter, hybrid control module (HCM), transmission control module (TCM), clutch, and electronic clutch actuator (ECA). Coverage does NOT include oil cooler or cooling systems. Please reference Roadranger Warranty Guide TCWY0900 for more information on complete listing of limits and exclusions, as well as terms and conditions.

### Off Road On-Site Assistance

Coverage is exclusively available for off road vehicles that are prohibited from use on public streets. If this coverage is provided, it will be specifically included in the coverage table as a separate category. Coverage includes on-site assistance and/or equipment transportation to the nearest authorized repairing location for a Daimler Trucks North America LLC warrantable repair.

### Paint (Body, Cab, & Cowl)

Paint coverage *excludes lack-of gloss issues on vehicles painted with low gloss colors; the underside of hoods and roof and side mounted air fairings; and any damages to the paint or painted surface such as chips and scratches.*

### Body Paint

Coverage includes all factory-painted exterior body surfaces. Warranted against orange peel; peeling/delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

### Cab Paint

Coverage includes all factory-painted surfaces (except those included in chassis paint coverage). Warranted against orange peel; peeling or delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

### Cowl Paint

Coverage includes all factory-painted exterior surfaces of cowl structure (except those included in chassis paint). Warranted against orange peel; peeling or delaminating; cracking or checking; or loss of gloss due to cracking, checking or hazing.

### Paint, Chassis (Chassis Paint)

Coverage includes all factory painted surfaces on frame rails, crossmembers/gussets, front and rear bumpers, suspension components, power train components, drivelines, fuel tanks, air tanks, wheel end equipment, tool boxes, battery boxes, access steps, and attaching brackets and hardware. Warranted against peeling or non-adhesion. *Excludes U-joints and any damages to the paint or painted surface such as chips and scratches.*

### Towing/Roadside Assistance

Coverage includes roadside assistance or towing (to the nearest authorized repair location) for a Daimler Trucks North America LLC warrantable repair in a vehicle-down situation that prevents the safe and lawful operation of the vehicle. If this coverage is provided, it will be specifically included in the coverage table as a separate category.

### Transfer Case

Coverage includes housing and all internally lubricated parts. *Excludes broken synchronizer pins, PTOs, airlines, gauge, clutch assemblies, driveline(s), and U-joints.*

### Transmission

Coverage does not include Allison transmissions, Detroit transmissions, or Eaton Hybrid transmissions. Coverage includes housing and all internally lubricated parts, electric/air shift/control units, valves, gaskets, and seals. *Excludes broken synchronizer pins, PTOs, airlines, gauge, gauge senders, yoke(s), clutch assemblies, clutch and clutch control components including clutch brake, driveline(s), and U-joints.*

### Wheel End Equipment

Coverage includes brake components, wheels, hubs, drums, rotors, wheel seals/ bearings, slack adjustors, and attaching hardware.