

**RESOLUTION NO. 3105**

**A RESOLUTION OF THE CITY OF WILSONVILLE AUTHORIZING THE PURCHASE OF ONE ASPHALT PATCH TRUCK FROM PREMIER TRUCK GROUP OF PORTLAND.**

WHEREAS, The City of Wilsonville Public Works Department is in need of equipment to perform asphalt road repairs; and

WHEREAS, Purchase of this equipment was budgeted for, and included in, the FY 23-24 adopted budget; and

WHEREAS, Premier Truck Group of Portland holds a price agreement through the State of Oregon Department of Administrative Services (DAS) to supply the needed equipment; and

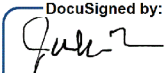
WHEREAS, Premier Truck Group of Portland has provided a quote of \$285,510.84 to supply the needed equipment based on a State of Oregon cooperative procurement contract.

NOW, THEREFORE, THE CITY OF WILSONVILLE RESOLVES AS FOLLOWS:

Section 1. Based on the above recitals, which are incorporated herein, the City Council, acting as the Local Contract Review Board, does hereby award a purchase contract for the purchase of one asphalt patch truck to Premier Truck Group of Portland, in the amount of \$285,510.84, which contract is substantially similar to Exhibit A attached hereto.

Section 2. This resolution is effective upon adoption.

ADOPTED by the Wilsonville City Council at a regular meeting there of this 18<sup>th</sup> day of December 2023, and filed with the Wilsonville City Recorder this date.

DocuSigned by:  
  
8A974AF3ADE042E...

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Julie Fitzgerald, Mayor

ATTEST:

DocuSigned by:  
*Kimberly Veliz*  
E781DE10276B498...

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Kimberly Veliz, City Recorder

SUMMARY OF VOTES:

|                            |     |
|----------------------------|-----|
| Mayor Fitzgerald           | Yes |
| Council President Akervall | Yes |
| Councilor Linville         | Yes |
| Councilor Berry            | Yes |
| Councilor Dunwell          | Yes |

EXHIBIT:

A. Contract

**CITY OF WILSONVILLE  
COOPERATIVE PURCHASE  
GOODS AND SERVICES CONTRACT**

This Cooperative Procurement Goods and Services Contract (“Contract”) for the Asphalt Patch Truck Purchase Project (“Project”) is made and entered into on this \_\_\_\_ day of November 2023 (“Effective Date”) by and between the **City of Wilsonville**, a municipal corporation of the State of Oregon (hereinafter referred to as the “City”), and **PTG Oregon, LLC**, a Delaware limited liability company, doing business as **Premier Truck Group of Portland** (hereinafter referred to as “Supplier”).

**RECITALS**

WHEREAS, the Oregon Revised Statutes authorize cooperative procurements in accordance with ORS 279A.200, et seq.; and

WHEREAS, the City wishes to purchase equipment that Supplier is capable of providing, under terms and conditions hereinafter described; and

WHEREAS, Supplier represents that Supplier is qualified to perform the services described herein on the basis of specialized experience and technical expertise; and

WHEREAS, Supplier is prepared to provide such services, as the City does hereinafter require.

NOW, THEREFORE, in consideration of these mutual promises and the terms and conditions set forth herein, the parties agree as follows:

**AGREEMENT**

**Section 1. Contract Documents**

This Contract includes and incorporates by reference all of the foregoing Recitals and all of the following additional “Contract Documents,” and any and all terms and conditions set forth in such Contract Documents: State of Oregon Solicitation #DASPS-2295-20 and Supplier’s bid submitted in response thereto; Price Agreement No. 1640 with JMR Group, LLC (dba McCoy Freightliner) for Freightliner and Western Star Brand Vehicles, dated effective May 1, 2021, and all attachments thereto (the “State Contract”); Transfer of Rights and Obligations and Consent (Assignment & Assumption) of Price Agreement No. 1640 to PTG Oregon, LLC (dba Premier Truck Group), dated effective November 15, 2021; Amendment No. 1 to Price Agreement No. 1640, dated January 6, 2022; Amendment No. 2 to Master Blanket Purchase Order No. PO-10700-00004663, dated February 10, 2023; Amendment No. 3 to Price Agreement No. PO-10700-00004663, dated July 25, 2022; and the provisions of Oregon Revised Statutes (ORS) 279C, as more particularly set forth in this Contract. Any conflict between this Contract and the State Contract shall be resolved in favor of this Contract. This Contract, the attached exhibits, and the State Contract and amendments thereto shall be collectively referred to as the “Contract Documents.” All Contract

Documents should be read in concert and Supplier is required to bring any perceived inconsistencies to the attention of the City before executing this Contract. In the event a provision of this Contract conflicts with standards or requirements contained in any of the foregoing Contract Documents, the provision that is more favorable to the City, as determined by the City, will apply.

## **Section 2. Goods Purchased**

Supplier will supply the new equipment described on the Quotation, attached hereto as **Exhibit A** and incorporated by reference herein (the “Equipment”).

## **Section 3. Equipment Price and Delivery**

The price of the Equipment is TWO HUNDRED EIGHTY-FIVE THOUSAND FIVE HUNDRED TEN DOLLARS AND EIGHTY-FOUR CENTS (\$285,510.84), as shown on **Exhibit A**, and includes delivery to 28879 SW Boberg Road, Wilsonville, Oregon 7070 (“Delivery Location”). Sale shall occur upon inspection of the Equipment and acceptance of delivery at the Delivery Location. The City will pay Supplier in full within 30 days of receipt and acceptance of delivery of the Equipment. Supplier will schedule a date and time for delivery. Delivery must occur on or before June 30, 2024.

3.1. The Equipment Price is all inclusive and includes, but is not limited to, all work-related costs, expenses, salaries or wages, plus fringe benefits and contributions, including payroll taxes, workers compensation insurance, liability insurance, profit, pension benefits, and all other contributions and benefits, technology and/or software charges, licensing, trademark, and/or copyright costs, office expenses, travel expenses, mileage, and all other indirect and overhead charges, including, but not limited to, the Oregon Corporate Activity Tax (CAT).

## **Section 4. Term**

Unless earlier terminated in accordance herewith, the term of this Contract shall be from the Effective Date until June 30, 2024. Any extension option must be exercised by the City, in writing, prior to expiration of the Initial Term of this Contract or any subsequent Extension Term.

## **Section 5. Subcontractors and Assignments**

Supplier shall not assign any of Supplier’s rights acquired hereunder without obtaining prior written approval from the City. Some Work may be performed by persons other than Supplier, provided Supplier advises the City of the names of such subcontractors and the services which they intend to provide, and the City specifically agrees, in writing, to such subcontracting. The City hereby agrees that Supplier will contract with Thermo-Lay Manufacturing to provide and install its asphalt patch equipment, which is a critical part of this Contract. Supplier acknowledges such services will be provided to the City pursuant to a subcontract(s) between Supplier and subcontractor(s) and no privity of contract exists between the City and the subcontractor(s). Unless otherwise specifically provided by this Contract, the City incurs no liability to third persons for payment of any compensation provided herein to Supplier. Any attempted assignment of this Contract without the written consent of the City shall be void. Except as otherwise specifically

agreed, all costs for services performed by others on behalf of Supplier shall not be subject to additional reimbursement by the City.

## **Section 6. Warranties.**

Supplier hereby agrees that Supplier will timely and thoroughly perform all warranty work. Work will be performed at the City's location unless the work cannot reasonably be performed on site. In that case, Supplier will be responsible for transporting the Equipment in need of warranty work from Wilsonville and back to Wilsonville. Supplier agrees to provide full warranty for labor and materials for all Equipment delivered to the City for a length of time not less than the manufacturer warranty for the specific Equipment. All warranties are from the date of delivery and acceptance by the City, and are in addition to, and not in lieu of, any other warranties provided by various manufacturers. Equipment warranties are attached hereto as **Exhibits B1 and B2**.

## **Section 7. Insurance**

7.1. Insurance Requirements. Supplier must maintain insurance coverage acceptable to the City in full force and effect throughout the term of this Contract. Such insurance shall cover all risks arising directly or indirectly out of Supplier's activities or Work hereunder. The amount of insurance carried is in no way a limitation on Supplier's liability hereunder. The policy or policies maintained by Supplier shall provide at least the following minimum limits and coverages at all times during performance of this Contract:

7.1.1. Commercial General Liability Insurance. Supplier shall obtain, at Supplier's expense, and keep in effect during the term of this Contract, comprehensive Commercial General Liability Insurance covering Bodily Injury and Property Damage, written on an "occurrence" form policy. This coverage shall include broad form Contractual Liability insurance for the indemnities provided under this Contract and shall be for the following minimum insurance coverage amounts: The coverage shall be in the amount of **\$2,000,000** for each occurrence and **\$3,000,000** general aggregate and shall include Products-Completed Operations Aggregate in the minimum amount of **\$2,000,000** per occurrence, Fire Damage (any one fire) in the minimum amount of **\$50,000**, and Medical Expense (any one person) in the minimum amount of **\$10,000**. All of the foregoing coverages must be carried and maintained at all times during this Contract.

7.1.2. Business Automobile Liability Insurance. If Supplier will be using a motor vehicle in the performance of the Work herein, Supplier shall provide the City a certificate indicating that Supplier has business automobile liability coverage for all owned, hired, and non-owned vehicles. The Combined Single Limit per occurrence shall not be less than **\$2,000,000**.

7.1.3. Workers Compensation Insurance. Supplier and all employers providing work, labor, or materials under this Contract that are subject employers under the Oregon Workers Compensation Law shall comply with ORS 656.017, which requires them to provide workers compensation coverage that satisfies Oregon law for all their subject workers under ORS 656.126. Out-of-state employers must provide Oregon workers

compensation coverage for their workers who work at a single location within Oregon for more than thirty (30) days in a calendar year. Suppliers who perform work without the assistance or labor of any employee need not obtain such coverage. This shall include Employer's Liability Insurance with coverage limits of not less than **\$500,000** each accident.

7.1.4. Insurance Carrier Rating. Coverages provided by Supplier must be underwritten by an insurance company deemed acceptable by the City, with an AM Best Rating of A or better. The City reserves the right to reject all or any insurance carrier(s) with a financial rating that is unacceptable to the City.

7.1.5. Additional Insured and Termination Endorsements. The City will be named as an additional insured with respect to Supplier's liabilities hereunder in insurance coverages. Additional Insured coverage under Supplier's Commercial General Liability, Automobile Liability, and Excess Liability Policies, as applicable, will be provided by endorsement. Additional insured coverage shall be for both ongoing operations via ISO Form CG 2010 or its equivalent, and products and completed operations via ISO Form CG 2037 or its equivalent. Coverage shall be Primary and Non-Contributory. Waiver of Subrogation endorsement via ISO Form CG 2404 or its equivalent shall be provided. The following is included as additional insured: "The City of Wilsonville, its elected and appointed officials, officers, agents, employees, and volunteers." An endorsement shall also be provided requiring the insurance carrier to give the City at least thirty (30) days' written notification of any termination or major modification of the insurance policies required hereunder.

7.1.6. Certificates of Insurance. As evidence of the insurance coverage required by this Contract, Supplier shall furnish a Certificate of Insurance to the City. This Contract shall not be effective until the required certificates and the Additional Insured Endorsements have been received and approved by the City. Supplier agrees that it will not terminate or change its coverage during the term of this Contract without giving the City at least thirty (30) days' prior advance notice and Supplier will obtain an endorsement from its insurance carrier, in favor of the City, requiring the carrier to notify the City of any termination or change in insurance coverage, as provided above.

7.2. Primary Coverage. The coverage provided by these policies shall be primary, and any other insurance carried by the City is excess. Supplier shall be responsible for any deductible amounts payable under all policies of insurance. If insurance policies are "Claims Made" policies, Supplier will be required to maintain such policies in full force and effect throughout any warranty period.

## **Section 8. Contract Modification; Change Orders**

Any modification of the provisions of this Contract shall not be enforceable or binding unless reduced to writing and signed by both the City and Supplier.

## Section 9. Notices

Any notice required or permitted under this Contract shall be in writing and shall be given when actually delivered in person or forty-eight (48) hours after having been deposited in the United States mail as certified or registered mail, addressed to the addresses set forth below, or to such other address as one party may indicate by written notice to the other party.

To City: City of Wilsonville  
Attn: Scott Simonton  
29799 SW Town Center Loop East  
Wilsonville, OR 97070

To Supplier: PTG Oregon, LLC,  
dba Premier Truck Group of Oregon  
Attn: Dylan Dripps  
9622 NE Vancouver Way  
Portland OR 97211

## Section 10. Miscellaneous Provisions

10.1. Legal Effect and Assignment. This Contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, personal representatives, successors, and assigns. This Contract may be enforced by an action at law or in equity.

10.2. No Assignment. Supplier may not delegate the performance of any obligation to a third party unless mutually agreed, in writing.

10.3. Governing Law. This Contract shall be construed in accordance with and governed by the laws of the State of Oregon, regardless of any conflicts of laws. All contractual provisions required by ORS Chapters 279A, 279B, 279C, and related Oregon Administrative Rules to be included in public agreements are hereby incorporated by reference and shall become a part of this Contract as if fully set forth herein.

10.4. Jurisdiction. Jurisdiction and venue for any dispute will be in Clackamas County Circuit Court.

10.5. Time of the Essence. Time is expressly made of the essence in the performance of this Contract.

10.6. Entire Agreement. This Contract, all documents attached to this Contract, and all Contract Documents and laws and regulations incorporated by reference herein represent the entire agreement between the parties.

10.7. Counterparts. This Contract may be executed in one or more counterparts, each of which shall constitute an original Contract but all of which together shall constitute one and the same instrument.

10.8. Authority. Each party signing on behalf of Supplier and the City hereby warrants actual authority to bind their respective party.

The Supplier and the City hereby agree to all provisions of this Contract.

**SUPPLIER:**

**CITY:**

PTG OREGON, LLC,  
dba Premier Truck Group of Portland

CITY OF WILSONVILLE

By: \_\_\_\_\_

By: \_\_\_\_\_

Print Name: \_\_\_\_\_

Print Name: \_\_\_\_\_

As Its: \_\_\_\_\_

As Its: \_\_\_\_\_

EIN/Tax I.D. No. \_\_\_\_\_

APPROVED AS TO FORM:

\_\_\_\_\_  
Amanda Guile-Hinman, City Attorney  
City of Wilsonville, Oregon



# EXHIBIT A

**Prepared for:**  
Martin Montalvo  
WILSONVILLE CITY OF  
29799 SW town Center Loop  
Wilsonville, OR 97070  
Phone: 503-570-1560

**Prepared by:**  
Dylan Dripps  
PREMIER TRUCK GROUP OF  
PORTLAND  
9622 N.E. VANCOUVER WAY  
PORTLAND, OR 97211  
Phone: 503-283-0345

***A proposal for CITY OF WILSONVILLE through DEPARTMENT OF ADMINISTRATIVE SERVICES PA 4663 and SOURCEWELL***

*Prepared by*  
**PREMIER TRUCK GROUP OF PORTLAND**  
*Dylan Dripps*

*Oct 12, 2023*

**2025 Freightliner M2 106 Plus**  
**Contract chassis price \$114,844.00**  
**Thermo-Lay quote 4.25CY \$168,647.84**  
**Est. OR CAT Tax \$1,019.00**  
**Your package Price \$285,510.84**



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



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## Q U O T A T I O N

### M2 106 PLUS CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK  
 CUM L9 360 HP @ 2200 RPM; 2200 GOV RPM, 1150 LB-  
 FT @ 1200 RPM  
 ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH  
 PTO PROVISION  
 RS-30-185 30,000# U-SERIES SINGLE REAR AXLE  
 30,000# FLAT LEAF SPRING REAR SUSPENSION WITH  
 RADIUS ROD  
 DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP  
 SINGLE FRONT AXLE  
 14,600# FLAT LEAF FRONT SUSPENSION

106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL  
 CAB  
 4875MM (192 INCH) WHEELBASE  
 NO FIFTH WHEEL  
 11/32X3-1/2X10-15/16 INCH STEEL FRAME  
 (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI  
 1900MM (75 INCH) REAR FRAME OVERHANG  
 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME  
 REINFORCEMENT

|                                  |                             | <b>PER UNIT</b>      |           | <b>TOTAL</b>      |
|----------------------------------|-----------------------------|----------------------|-----------|-------------------|
| VEHICLE PRICE                    | <b>TOTAL # OF UNITS (1)</b> | \$ 114,844           | \$        | 114,844           |
| EXTENDED WARRANTY                |                             | \$ 0                 | \$        | 0                 |
| DEALER INSTALLED OPTIONS         |                             | \$ 168,647.84        | \$        | 168,647.84        |
| <b>CUSTOMER PRICE BEFORE TAX</b> |                             | <b>\$ 283,491.84</b> | <b>\$</b> | <b>283,491.84</b> |

### TAXES AND FEES

|                |    |       |    |       |
|----------------|----|-------|----|-------|
| TAXES AND FEES | \$ | 1,019 | \$ | 1,019 |
| OTHER CHARGES  | \$ | 0     | \$ | 0     |

### TRADE-IN

|                           |    |     |    |     |
|---------------------------|----|-----|----|-----|
| <b>TRADE-IN ALLOWANCE</b> | \$ | (0) | \$ | (0) |
|---------------------------|----|-----|----|-----|

|                    |  |                                       |           |                   |
|--------------------|--|---------------------------------------|-----------|-------------------|
| <b>BALANCE DUE</b> |  | <b>(LOCAL CURRENCY) \$ 284,510.84</b> | <b>\$</b> | <b>284,510.84</b> |
|--------------------|--|---------------------------------------|-----------|-------------------|

**COMMENTS:**

Projected delivery on \_\_\_ / \_\_\_ / \_\_\_ provided the order is received before \_\_\_ / \_\_\_ / \_\_\_.

**APPROVAL:**

Please indicate your acceptance of this quotation by signing below:

Customer: X \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_.



Financing that works for you.

See your local dealer for a competitive quote from Daimler Truck Financial, or contact us at [Information@dtfoffers.com](mailto:Information@dtfoffers.com).

Daimler Truck Financial offers a variety of finance, lease and insurance solutions to fit your business needs. For more information about our products and services, visit our website at [www.daimler-truckfinancial.com](http://www.daimler-truckfinancial.com).



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## 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<br>Front | Weight<br>Rear |
|------------------------------|---|-----------------|----------------|
| <b>Price Level</b>           |   |                 |                |
| PRL-28M                      | M2 PRL-28M (EFF:MY25 ORDERS)  |                 |                |
| <b>Data Version</b>          |   |                 |                |
| DRL-015                      | SPECPRO21 DATA RELEASE VER 015  |                 |                |
| <b>Vehicle Configuration</b> |   |                 |                |
| 001-172                      | M2 106 PLUS CONVENTIONAL CHASSIS  | 5,709           | 3,450          |
| 004-225                      | 2025 MODEL YEAR SPECIFIED   |                 |                |
| 002-004                      | SET BACK AXLE - TRUCK   |                 |                |
| 019-006                      | TRAILER TOWING PROVISION AT END OF<br>FRAME WITH SAE J560   | 10              | 10             |
| 003-001                      | LH PRIMARY STEERING LOCATION  |                 |                |
| <b>General Service</b>       |   |                 |                |
| AA1-003                      | TRUCK/TRAILER CONFIGURATION   |                 |                |
| AA6-001                      | DOMICILED, USA 50 STATES (INCLUDING<br>CALIFORNIA AND CARB OPT-IN STATES)                                   |                 |                |
| A85-010                      | UTILITY/REPAIR/MAINTENANCE SERVICE  |                 |                |
| A84-1GM                      | GOVERNMENT BUSINESS SEGMENT   |                 |                |
| AA4-010                      | DIRT/SAND/ROCK COMMODITY  |                 |                |
| AA5-002                      | TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN<br>TRANSIT, IS SPENT ON PAVED ROADS                                |                 |                |
| AB1-012                      | MAXIMUM 12% EXPECTED GRADE  |                 |                |
| AB5-002                      | ROUGH, MAINTAINED, CONCRETE OR ASPHALT<br>PAVEMENT - MOST SEVERE IN-TRANSIT<br>(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 :<br>30000.0 lbs   |                 |                |
| A63-99D                      | EXPECTED GROSS VEHICLE WEIGHT CAPACITY<br>: 42000.0 lbs   |                 |                |
| A70-99D                      | EXPECTED GROSS COMBINATION WEIGHT :<br>80000.0 lbs  |                 |                |



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| Data Code                    | Description   | Weight<br>Front | Weight<br>Rear |
|------------------------------|---|-----------------|----------------|
| <b>Truck Service</b>         |   |                 |                |
| AA3-003                      | TANK BODY   |                 |                |
| AF3-2G2                      | ABC SUPPLY CO., INC.  |                 |                |
| AF7-99D                      | EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE<br>FRAME "XX" INCHES : 32.0 in  |                 |                |
| <b>Tractor Service</b>       |   |                 |                |
| AA2-005                      | FLATBED TRAILER   |                 |                |
| AH6-001                      | SINGLE (1) TRAILER  |                 |                |
| <b>Engine</b>                |   |                 |                |
| 101-3BR                      | CUM L9 360 HP @ 2200 RPM; 2200 GOV RPM,<br>1150 LB-FT @ 1200 RPM  | 640             | 30             |
| <b>Electronic Parameters</b> |   |                 |                |
| 79A-065                      | 65 MPH ROAD SPEED LIMIT   |                 |                |
| 79B-000                      | CRUISE CONTROL SPEED LIMIT SAME AS ROAD<br>SPEED LIMIT  |                 |                |
| 79G-105                      | 5 MINUTE IDLE SHUTDOWN - CONTINUOUS<br>OVERRIDE WITH CLUTCH AND SERVICE BRAKE                                   |                 |                |
| 79K-014                      | PTO MODE ENGINE RPM LIMIT - 1800 RPM  |                 |                |
| 79M-001                      | PTO MODE BRAKE OVERRIDE - SERVICE<br>BRAKE APPLIED  |                 |                |
| 79P-002                      | PTO RPM WITH CRUISE SET SWITCH - 700 RPM  |                 |                |
| 79Q-002                      | PTO RPM WITH CRUISE RESUME SWITCH - 700<br>RPM  |                 |                |
| 79S-008                      | PTO MODE CANCEL VEHICLE SPEED - 25 MPH  |                 |                |
| 79U-007                      | PTO GOVERNOR RAMP RATE - 250 RPM PER<br>SECOND  |                 |                |
| 79W-001                      | ONE REMOTE PTO SPEED  |                 |                |
| 79X-007                      | PTO SPEED 1 SETTING - 1000 RPM  |                 |                |
| 80G-002                      | PTO MINIMUM RPM - 700   |                 |                |
| 80J-002                      | REGEN INHIBIT SPEED THRESHOLD - 5 MPH   |                 |                |
| 80S-015                      | PTO 1, NO SWITCH, TEM SUPPLIED REQUEST,<br>FEEDBACK AND INTERLOCKS, WITH PTO<br>CONNECTIONS, ROLLING INTERLOCKS |                 |                |
| 80T-015                      | PTO 2, NO SWITCH, TEM SUPPLIED REQUEST<br>AND INTERLOCKS, WITH PTO CONNECTIONS,<br>ROLLING INTERLOCKS           |                 |                |
| <b>Engine Equipment</b>      |   |                 |                |
| 99C-124                      | EPA 2010 GHG 2024/CARB 2024 ULTRALOW NOX<br>CONFIGURATION   |                 |                |
| 13E-001                      | STANDARD OIL PAN  |                 |                |



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| Data Code | Description  | Weight<br>Front | Weight<br>Rear |
|-----------|--|-----------------|----------------|
| 105-001   | ENGINE MOUNTED OIL CHECK AND FILL  |                 |                |
| 014-099   | SIDE OF HOOD AIR INTAKE WITH FIREWALL<br>MOUNTED DONALDSON AIR CLEANER   |                 |                |
| 124-1D7   | DR 12V 160 AMP 28-SI QUADRAMOUNT PAD<br>ALTERNATOR WITH REMOTE BATTERY VOLT<br>SENSE   |                 |                |
| 292-235   | (2) DTNA GENUINE, FLOODED STARTING, MIN<br>2000CCA, 370RC, THREADED STUD BATTERIES   | 10              |                |
| 290-017   | BATTERY BOX FRAME MOUNTED  |                 |                |
| 281-001   | STANDARD BATTERY JUMPERS   |                 |                |
| 282-001   | SINGLE BATTERY BOX FRAME MOUNTED LH<br>SIDE UNDER CAB  |                 |                |
| 291-017   | WIRE GROUND RETURN FOR BATTERY CABLES<br>WITH ADDITIONAL FRAME GROUND RETURN   |                 |                |
| 289-001   | NON-POLISHED BATTERY BOX COVER   |                 |                |
| 293-058   | POSITIVE LOAD DISCONNECT WITH CAB<br>MOUNTED CONTROL SWITCH MOUNTED<br>OUTBOARD DRIVER SEAT                                    | 2               |                |
| 295-029   | POSITIVE AND NEGATIVE POSTS FOR<br>JUMPSTART LOCATED ON FRAME NEXT TO<br>STARTER   | 2               |                |
| 306-015   | PROGRESSIVE LOW VOLTAGE DISCONNECT AT<br>12.3 VOLTS FOR DESIGNATED CIRCUITS  |                 |                |
| 107-032   | CUMMINS TURBOCHARGED 18.7 CFM AIR<br>COMPRESSOR WITH INTERNAL SAFETY VALVE   |                 |                |
| 108-002   | STANDARD MECHANICAL AIR COMPRESSOR<br>GOVERNOR   |                 |                |
| 131-013   | AIR COMPRESSOR DISCHARGE LINE  |                 |                |
| 152-040   | ELECTRONIC ENGINE INTEGRAL WARNING AND<br>DERATE PROTECTION SYSTEM   |                 |                |
| 128-032   | C-BRAKE BY JACOBS WITH LOW/OFF/HIGH<br>BRAKING DASH SWITCH   | 80              |                |
| 016-1C2   | RH OUTBOARD UNDER STEP MOUNTED<br>HORIZONTAL AFTERTREATMENT SYSTEM<br>ASSEMBLY WITH RH B-PILLAR MOUNTED<br>VERTICAL TAILPIPE   | 30              | 25             |
| 28F-014   | ENGINE AFTERTREATMENT DEVICE,<br>AUTOMATIC OVER THE ROAD REGENERATION<br>AND VIRTUAL REGENERATION REQUEST<br>SWITCH IN CLUSTER |                 |                |
| 239-026   | 10 FOOT 06 INCH (126 INCH+0/-5.9 INCH)<br>EXHAUST SYSTEM HEIGHT  |                 |                |
| 233-017   | STANDARD CURVE BRIGHT UPPER STACK(S)   |                 |                |
| 237-1CR   | RH CURVED VERTICAL TAILPIPE B-PILLAR<br>MOUNTED ROUTED FROM STEP   |                 |                |

**Prepared for:**  
 Martin Montalvo  
 WILSONVILLE CITY OF  
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| Data Code | Description  | Weight<br>Front | Weight<br>Rear |
|-----------|--|-----------------|----------------|
| 23U-001   | 6 GALLON DIESEL EXHAUST FLUID TANK   |                 |                |
| 30N-003   | 100 PERCENT DIESEL EXHAUST FLUID FILL  |                 |                |
| 43X-002   | LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION                           |                 |                |
| 23Y-001   | STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING  |                 |                |
| 43Y-001   | STANDARD DIESEL EXHAUST FLUID TANK CAP   |                 |                |
| 242-001   | STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD                       |                 |                |
| 273-060   | HIGH SPEED AIR POWERED ON/OFF ENGINE FAN CLUTCH                                      |                 |                |
| 276-002   | AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED       |                 |                |
| 110-003   | CUMMINS SPIN ON FUEL FILTER  |                 |                |
| 118-008   | COMBINATION FULL FLOW/BYPASS OIL FILTER  |                 |                |
| 266-101   | 900 SQUARE INCH ALUMINUM RADIATOR  | 15              |                |
| 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   |                 |                |
| 168-998   | NO RADIATOR/OIL PAN GUARD  | -5              |                |
| 138-011   | PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER                                       | 4               |                |
| 140-022   | CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR                                |                 |                |
| 134-001   | ALUMINUM FLYWHEEL HOUSING  |                 |                |
| 132-004   | ELECTRIC GRID AIR INTAKE WARMER  |                 |                |
| 155-055   | DELCO 12V 39MT HD/OCP STARTER WITH THERMAL PROTECTION AND INTEGRATED MAGNETIC SWITCH | 15              |                |

### Transmission

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

### Transmission Equipment

|         |   |  |  |
|---------|---|--|--|
| 343-339 | ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV |  |  |
|---------|---|--|--|



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| Data Code | Description   | Weight Front | Weight Rear |
|-----------|---|--------------|-------------|
| 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-017   | S5 PERFORMANCE LIMITING PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY                       |              |             |
| 84F-016   | S5 PERFORMANCE LIMITING SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY                     |              |             |
| 84G-013   | 2100 RPM PRIMARY MODE SHIFT SPEED   |              |             |
| 84H-013   | 2100 RPM SECONDARY MODE SHIFT SPEED   |              |             |
| 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-011   | NEUTRAL AT STOP ENABLED   |              |             |
| 84U-000   | DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES   |              |             |
| 85E-011   | MAXIMUM ENGINE SPEED FOR PTO ENGAGEMENT 1000 RPM  |              |             |
| 85F-034   | MAXIMUM ENGINE SPEED FOR PTO OPERATION 2000 RPM   |              |             |
| 85H-079   | MAXIMUM OUTPUT SPEED FOR PTO OPERATION 2000 RPM - ALLISON 5TH GEN TRANSMISSIONS                                     |              |             |
| 353-073   | QUICKFIT BODY LIGHTING CONNECTOR UNDER CAB, WITH CAP  |              |             |
| 34C-011   | ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR  |              |             |
| 362-824   | (2) CUSTOMER INSTALLED CHELSEA 280 SERIES PTO'S   |              |             |
| 363-010   | PTO MOUNTING, LH SIDE AND TOP RH SIDE OF MAIN TRANSMISSION ALLISON  |              |             |
| 341-018   | MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN  |              |             |



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| Data Code                       | Description  | Weight Front | Weight Rear |
|---------------------------------|--|--------------|-------------|
| 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)                     |              |             |
| <b>Front Axle and Equipment</b> |  |              |             |
| 400-1A6                         | DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE |              |             |
| 402-1A4                         | MERITOR EX-L OPTIMIZED AXIAL AIR DISC FRONT BRAKES                   | 10           |             |
| 403-002                         | NON-ASBESTOS FRONT BRAKE LINING                                      |              |             |
| 419-004                         | FRONT DISC BRAKE ROTORS  |              |             |
| 427-001                         | FRONT BRAKE DUST SHIELDS   | 5            |             |
| 409-006                         | FRONT OIL SEALS  |              |             |
| 408-001                         | VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL       |              |             |
| 416-022                         | STANDARD SPINDLE NUTS FOR ALL AXLES                                  |              |             |
| 405-030                         | FRONT AIR DISC BRAKE INTERNAL ADJUSTERS                              |              |             |
| 536-050                         | TRW THP-60 POWER STEERING  |              |             |
| 539-003                         | POWER STEERING PUMP  |              |             |
| 534-015                         | 2 QUART SEE THROUGH POWER STEERING RESERVOIR                         |              |             |
| 40T-002                         | CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE                   |              |             |
| <b>Front Suspension</b>         |  |              |             |
| 620-003                         | 14,600# FLAT LEAF FRONT SUSPENSION                                   | 250          |             |
| 619-004                         | GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION               |              |             |
| 410-998                         | NO FRONT SHOCK ABSORBERS   | -30          |             |
| <b>Rear Axle and Equipment</b>  |  |              |             |
| 420-024                         | RS-30-185 30,000# U-SERIES SINGLE REAR AXLE                          |              | 275         |
| 421-538                         | 5.38 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   |              |             |





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|-----------|--|--------------|-------------|
| 452-001   | DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE               |              | 20          |
| 878-018   | (1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE |              |             |
| 87B-008   | INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH                     |              |             |
| 423-010   | MERITOR 16.5X7 P CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, CAST SHOES  |              | 20          |
| 433-002   | NON-ASBESTOS REAR BRAKE LINING   |              |             |
| 434-012   | BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)                    |              |             |
| 451-018   | WEBB CAST IRON REAR BRAKE DRUMS  |              | 50          |
| 425-002   | REAR BRAKE DUST SHIELDS  |              | 5           |
| 440-006   | REAR OIL SEALS   |              |             |
| 426-100   | WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS          |              |             |
| 428-003   | HALDEX AUTOMATIC REAR SLACK ADJUSTERS                                    |              |             |
| 41T-002   | CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE                        |              |             |

### Rear Suspension

|         |  |  |     |
|---------|--|--|-----|
| 622-1DB | 30,000# FLAT LEAF SPRING REAR SUSPENSION WITH RADIUS ROD |  | 120 |
| 621-001 | SPRING SUSPENSION - NO AXLE SPACERS                      |  |     |
| 431-001 | STANDARD AXLE SEATS IN AXLE CLAMP GROUP                  |  |     |
| 623-005 | FORE/AFT CONTROL RODS                                    |  |     |

### Pusher / Tag Equipment

|         |                                  |  |  |
|---------|----------------------------------|--|--|
| 429-998 | NO PUSHER/TAG BRAKE DUST SHIELDS |  |  |
|---------|----------------------------------|--|--|

### Brake System

|         |  |  |  |
|---------|--|--|--|
| 018-002 | AIR BRAKE PACKAGE  |  |  |
| 490-1AU | WABCO 4S/4M ABS WITH TRACTION CONTROL WITH ATC SHUT OFF 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 |  |  |



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| Data Code                    | Description  | Weight Front | Weight Rear |
|------------------------------|--|--------------|-------------|
| 480-088                      | WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER  |              |             |
| 479-003                      | AIR DRYER MOUNTED INBOARD ON LH RAIL   |              |             |
| 460-001                      | STEEL AIR BRAKE RESERVOIRS   |              |             |
| 477-001                      | PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS                                |              |             |
| 485-003                      | QUICK DISCONNECT FITTING WITH TIRE INFLATION KIT   | 2            |             |
| <b>Trailer Connections</b>   |  |              |             |
| 481-998                      | NO TRAILER AIR HOSE  |              |             |
| 476-998                      | NO AIR HOSE HANGER   |              |             |
| 914-025                      | AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND DUST COVERS                          |              |             |
| 296-010                      | PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, ABS CENTER PIN POWERED THROUGH IGNITION |              |             |
| 303-025                      | SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME                               |              |             |
| 310-998                      | NO TRAILER ELECTRICAL CABLE  |              |             |
| <b>Wheelbase &amp; Frame</b> |  |              |             |
| 545-487                      | 4875MM (192 INCH) WHEELBASE  |              |             |
| 546-101                      | 11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI                     | 120          | 120         |
| 547-001                      | 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT  | 140          | 360         |
| 552-014                      | 1900MM (75 INCH) REAR FRAME OVERHANG   |              |             |
| 55W-007                      | FRAME OVERHANG RANGE: 71 INCH TO 80 INCH   | -30          | 120         |
| AC8-99D                      | CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 126.38 in   |              |             |
| AE8-99D                      | CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 123.38 in                           |              |             |
| AE4-99D                      | CALC'D FRAME LENGTH - OVERALL : 305.71 in  |              |             |
| FSS-0LH                      | CALCULATED FRAME SPACE LH SIDE : 70.6 in   |              |             |
| FSS-0RH                      | CALCULATED FRAME SPACE RH SIDE : 93.76 in  |              |             |
| 553-001                      | SQUARE END OF FRAME  |              |             |
| 550-001                      | FRONT CLOSING CROSSMEMBER  |              |             |
| 559-003                      | LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER   | -12          |             |
| 561-001                      | STANDARD CROSSMEMBER BACK OF TRANSMISSION  |              |             |



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| Data Code                | Description  | Weight Front | Weight Rear |
|--------------------------|--|--------------|-------------|
| 562-001                  | STANDARD MIDSHIP #1 CROSSMEMBER(S)                                     |              |             |
| 572-001                  | STANDARD REAR MOST CROSSMEMBER   |              |             |
| 565-001                  | STANDARD SUSPENSION CROSSMEMBER  |              |             |
| <b>Chassis Equipment</b> |  |              |             |
| 556-1AP                  | THREE-PIECE 14 INCH PAINTED STEEL BUMPER WITH COLLAPSIBLE ENDS         | 30           |             |
| 574-001                  | BUMPER MOUNTING FOR SINGLE LICENSE PLATE                               |              |             |
| 585-998                  | NO MUDFLAP BRACKETS  |              |             |
| 590-998                  | NO REAR MUDFLAPS   |              |             |
| 586-024                  | FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS                        |              |             |
| 551-007                  | GRADE 8 THREADED HEX HEADED FRAME FASTENERS                            |              |             |
| 44Z-002                  | EXTERIOR HARNESSES WRAPPED IN ABRASION TAPE                            |              |             |
| <b>Fifth Wheel</b>       |  |              |             |
| 578-998                  | NO FIFTH WHEEL   |              |             |
| <b>Fuel Tanks</b>        |  |              |             |
| 204-195                  | 60 GALLON/227 LITER RECTANGULAR ALUMINUM FUEL TANK - LH                | 30           |             |
| 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)   |              |             |
| 122-1H3                  | DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR                 | -5           |             |
| 216-020                  | EQUIFLO INBOARD FUEL SYSTEM  |              |             |
| 202-016                  | HIGH TEMPERATURE REINFORCED NYLON FUEL LINE                            |              |             |
| <b>Tires</b>             |  |              |             |
| 093-1VM                  | MICHELIN X LINE ENERGY Z 315/80R22.5 20 PLY RADIAL FRONT TIRES         | 50           |             |
| 094-1UY                  | MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES                    |              | 60          |
| <b>Hubs</b>              |  |              |             |

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| Data Code           | Description   | Weight Front | Weight Rear |
|---------------------|---|--------------|-------------|
| 418-060             | CONMET PRESET PLUS PREMIUM IRON FRONT HUBS                                      |              |             |
| 450-014             | WEBB IRON REAR HUBS   |              | 70          |
| <b>Wheels</b>       |   |              |             |
| 502-433             | ACCURIDE 29039 22.5X9.00 10-HUB PILOT 5.25 INSET 5-HAND STEEL DISC FRONT WHEELS | 66           |             |
| 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   |              |             |
| 690-002             | TUNNEL/FIREWALL LINER   |              |             |
| 727-1AF             | SINGLE 14 INCH ROUND HADLEY AIR HORN UNDER LH DECK                              | 4            |             |
| 726-001             | SINGLE ELECTRIC HORN  |              |             |
| 728-001             | SINGLE HORN SHIELD  |              |             |
| 575-001             | REAR LICENSE PLATE MOUNT END OF FRAME   |              |             |
| 312-038             | INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL                            |              |             |
| 302-047             | LED AERODYNAMIC MARKER LIGHTS   |              |             |
| 311-001             | DAYTIME RUNNING LIGHTS  |              |             |
| 294-001             | INTEGRAL STOP/TAIL/BACKUP LIGHTS  |              |             |
| 300-015             | STANDARD FRONT TURN SIGNAL LAMPS  |              |             |
| 744-1BC             | DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE              |              |             |
| 797-001             | DOOR MOUNTED MIRRORS  |              |             |
| 796-001             | 102 INCH EQUIPMENT WIDTH  |              |             |
| 743-204             | LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS     |              |             |
| 74A-001             | RH DOWN VIEW MIRROR   |              |             |



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|-----------|---|--------------|-------------|
| 74B-005   | RH VELVAC 8 INCH BRIGHT FINISH HOOD MOUNTED CONVEX MIRROR WITH SWING ARM BRACKET, DUAL VIEW | 4            |             |
| 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                          |              |             |
| 654-011   | RH AND LH ELECTRIC POWERED WINDOWS  |              |             |
| 663-013   | 1-PIECE SOLAR GREEN GLASS WINDSHIELD  |              |             |
| 659-007   | 8 LITER (2 GAL) WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR     |              |             |

### Cab Interior

|         |  |    |  |
|---------|--|----|--|
| 055-019 | RUGGED TRIM PACKAGE  |    |  |
| 707-107 | GRAY & CARBON VINYL INTERIOR "RUGGED"                                      |    |  |
| 70K-020 | CARBON WITH PREMIUM GUNMETAL ACCENT (RUGGED)                               |    |  |
| 706-013 | MOLDED PLASTIC DOOR PANEL  |    |  |
| 708-013 | MOLDED PLASTIC DOOR PANEL  |    |  |
| 772-006 | BLACK MATS WITH SINGLE INSULATION  |    |  |
| 785-034 | ASH CUP AND (1)LIGHTER, (1)12V POWER OUTLET, (1)DASH MTD DUAL USB-C OUTLET |    |  |
| 691-001 | FORWARD ROOF MOUNTED CONSOLE   |    |  |
| 696-012 | CENTER STORAGE CONSOLE MOUNTED ON BACKWALL                                 | 20 |  |
| 693-035 | LH AND RH KICKPLATES   |    |  |
| 738-021 | DIGITAL ALARM CLOCK IN DRIVER DISPLAY                                      |    |  |
| 742-007 | (2) CUP HOLDERS LH AND RH DASH   |    |  |
| 680-029 | M2/SD DASH   |    |  |
| 720-003 | 5 LB. FIRE EXTINGUISHER  | 10 |  |
| 700-002 | HEATER, DEFROSTER AND AIR CONDITIONER                                      |    |  |
| 701-008 | STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE                |    |  |
| 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   |    |  |
| 739-034 | PREMIUM INSULATION   |    |  |



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| Data Code | Description   | Weight<br>Front | Weight<br>Rear |
|-----------|---|-----------------|----------------|
| 285-013   | SOLID-STATE CIRCUIT PROTECTION AND FUSES  |                 |                |
| 280-007   | 12V NEGATIVE GROUND ELECTRICAL SYSTEM   |                 |                |
| 324-1B3   | STANDARD LED CAB LIGHTING   |                 |                |
| 787-998   | NO SECURITY DEVICE  |                 |                |
| 657-1A0   | ALL UNIT(S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY NUMBER FT1013   |                 |                |
| 78G-006   | KEY QUANTITY OF 6   |                 |                |
| 655-005   | LH AND RH ELECTRIC DOOR LOCKS   |                 |                |
| 722-002   | TRIANGULAR REFLECTORS WITHOUT FLARES  | 10              |                |
| 756-339   | PREMIUM ISRINGHAUSEN HIGH BACK AIR SUSPENSION DRIVERS SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK   | 70              |                |
| 760-339   | PREMIUM ISRINGHAUSEN HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK | 60              | 20             |
| 759-005   | DUAL DRIVER AND PASSENGER SEAT ARMRESTS   | 8               |                |
| 711-004   | LH AND RH INTEGRAL DOOR PANEL ARMRESTS  |                 |                |
| 758-1AK   | BLACK VINYL DRIVER SEAT COVER   |                 |                |
| 761-1AK   | BLACK VINYL PASSENGER SEAT COVER  |                 |                |
| 763-101   | BLACK SEAT BELTS  |                 |                |
| 532-002   | ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN   |                 |                |
| 540-070   | 4-SPOKE 18 INCH (450MM) LEATHER WRAPPED STEERING WHEEL WITH CHROME SWITCH BEZELS  |                 |                |
| 765-002   | DRIVER AND PASSENGER INTERIOR SUN VISORS  |                 |                |

### Instruments & Controls

|         |  |  |  |
|---------|--|--|--|
| 106-002 | ELECTRONIC ACCELERATOR CONTROL                         |  |  |
| 734-023 | CONFIGURABLE LOWER PANEL WITH INTEGRATED UPPER STORAGE |  |  |
| 87L-001 | ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK      |  |  |
| 870-002 | BRIGHT ARGENT FINISH GAUGE BEZELS                      |  |  |
| 486-001 | LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM     |  |  |
| 838-001 | (1) PNEUMATIC SINGLE BRAKE APPLICATION AIR GAUGE       |  |  |



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| Data Code | Description  | Weight Front | Weight Rear |
|-----------|--|--------------|-------------|
| 840-001   | DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE   |              |             |
| 198-003   | DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS                                      |              |             |
| 721-001   | 97 DB BACKUP ALARM   |              | 3           |
| 149-015   | ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES                             |              |             |
| 156-007   | KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY |              |             |
| 811-044   | PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY                                   |              |             |
| 81B-003   | DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY   |              |             |
| 160-038   | HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH                     |              |             |
| 844-001   | 2 INCH ELECTRIC FUEL GAUGE   |              |             |
| 148-073   | ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE  |              |             |
| 48H-003   | QUICKFIT POWERTRAIN INTERFACE CONNECTOR UNDER CAB WITH CAPS                                  |              |             |
| 4C0-998   | NO ADDITIONAL EXTRA SWITCH ACCUATORS   |              |             |
| 48C-003   | QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) UNDER CAB WITH CAP                              |              |             |
| 163-014   | ENGINE REMOTE INTERFACE CONNECTOR AT POWERTRAIN INTERFACE CONNECTOR                          |              |             |
| 856-001   | ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE  |              |             |
| 864-001   | 2 INCH TRANSMISSION OIL TEMPERATURE GAUGE  |              |             |
| 867-004   | ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER                       |              |             |
| 830-017   | ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY                                   |              |             |
| 372-123   | PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE                           |              |             |
| 736-998   | NO OBSTACLE DETECTION SYSTEM   |              |             |
| 72J-998   | NO DR ASSIST SYSTEM  |              |             |
| 49B-998   | NO VEHICLE STABILITY ADVISOR OR CONTROL  |              |             |
| 73B-998   | NO LANE DEPARTURE WARNING SYSTEM   |              |             |
| 852-002   | ELECTRIC ENGINE OIL PRESSURE GAUGE   |              |             |



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|   | Data Code | Description   | Weight<br>Front | Weight<br>Rear |
|---|-----------|---|-----------------|----------------|
| N | 679-022   | LEFTHAND/RIGHTHAND OVERHEAD INSTRUMENT PANEL BLANK  |                 |                |
|   | 35M-010   | QUICKFIT PROGRAMMABLE INTERFACE MODULE  | 10              |                |
|   | 746-137   | AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH, USB AND AUXILIARY INPUTS, J1939                    |                 |                |
|   | 747-001   | DASH MOUNTED RADIO  |                 |                |
|   | 750-002   | (2) RADIO SPEAKERS IN CAB   |                 |                |
|   | 753-998   | NO AM/FM RADIO ANTENNA  |                 |                |
|   | 748-044   | UNIDEN PC78LTX FACTORY INSTALLED CB RADIO WITH SWR METER                                      | 5               |                |
|   | 749-001   | ROOF/OVERHEAD CONSOLE CB RADIO PROVISION  |                 |                |
|   | 752-017   | MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM                                       |                 |                |
|   | 74D-006   | STANDARD RADIO WIRING WITH STEERING WHEEL CONTROLS  |                 |                |
|   | 810-027   | ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER                         |                 |                |
|   | 817-001   | STANDARD VEHICLE SPEED SENSOR   |                 |                |
|   | 812-001   | ELECTRONIC 3000 RPM TACHOMETER  |                 |                |
|   | 813-1C8   | DETROIT CONNECT PLATFORM HARDWARE   |                 |                |
|   | 8D1-303   | 3 YEARS DAIMLER CONNECTIVITY BASE PACKAGE (FEATURES VARY BY MODEL) POWERED BY DETROIT CONNECT |                 |                |
|   | 6TS-006   | TMC RP1226 ACCESSORY CONNECTOR LOCATED CENTER OF OVERHEAD CONSOLE                             |                 |                |
|   | 162-002   | IGNITION SWITCH CONTROLLED ENGINE STOP  |                 |                |
|   | 329-121   | FOUR EXTRA HARDWIRED SWITCHES IN DASH, INPUT POWER, NO OUTPUT WIRING                          |                 |                |
|   | 4C1-026   | HARDWIRE SWITCH #1, ON/OFF LATCHING, 10 AMPS BATTERY POWER                                    |                 |                |
|   | 4C2-026   | HARDWIRE SWITCH #2, ON/OFF LATCHING, 10 AMPS BATTERY POWER                                    |                 |                |
|   | 4C3-017   | HARDWIRE SWITCH #3, ON/OFF LATCHING, 10 AMPS BATTERY POWER                                    |                 |                |
|   | 4C4-017   | HARDWIRE SWITCH #4, ON/OFF LATCHING, 10 AMPS BATTERY POWER                                    |                 |                |
|   | 81Y-005   | PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS ONLY   |                 |                |
|   | 264-030   | (1) OVERHEAD MOUNTED LANYARD CONTROL FOR DRIVER AIR HORN                                      |                 |                |





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| Data Code | Description   | Weight<br>Front | Weight<br>Rear |
|-----------|---|-----------------|----------------|
| 482-001   | BW TRACTOR PROTECTION VALVE   |                 |                |
| 883-001   | TRAILER HAND CONTROL BRAKE VALVE  |                 |                |
| 836-015   | DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY  |                 |                |
| 660-008   | SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY   |                 |                |
| 304-030   | ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS |                 |                |
| 882-004   | TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR   |                 |                |
| 299-020   | SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT             |                 |                |
| 298-046   | INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH 40 AMP (20 AMP PER SIDE) TRAILER LAMP CAPACITY       |                 |                |

### Design

065-000 PAINT: ONE SOLID COLOR

### Color

980-5F6 CAB COLOR A: L0006EY WHITE ELITE EY  
 986-020 BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT  
 962-974 POWDER GRAY (N0020EA) FRONT WHEELS/RIMS (PKGGRY21, G, PG1)  
 966-974 POWDER GRAY (N0020EA) REAR WHEELS/RIMS (PKGGRY21, G, PG1)  
 964-6Z7 BUMPER PAINT: FP24812 ARGENT SILVER DUPONT FLEX  
 969-998 NO CAB/BODY EXTERIOR DECALS  
 963-003 STANDARD E COAT/UNDERCOATING

### Certification / Compliance

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

### Sales Programs

NO SALES PROGRAMS HAVE BEEN SELECTED

## TOTAL VEHICLE SUMMARY



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### Weight Summary

|                             | <b>Weight<br/>Front</b> | <b>Weight<br/>Rear</b> | <b>Total<br/>Weight</b> |
|-----------------------------|-------------------------|------------------------|-------------------------|
| Factory Weight <sup>+</sup> | 7539 lbs                | 4870 lbs               | 12409 lbs               |
| <hr/>                       |                         |                        |                         |
| Total Weight <sup>+</sup>   | 7539 lbs                | 4870 lbs               | 12409 lbs               |

(+) Weights shown are estimates only.  
If weight is critical, contact Customer Application Engineering.

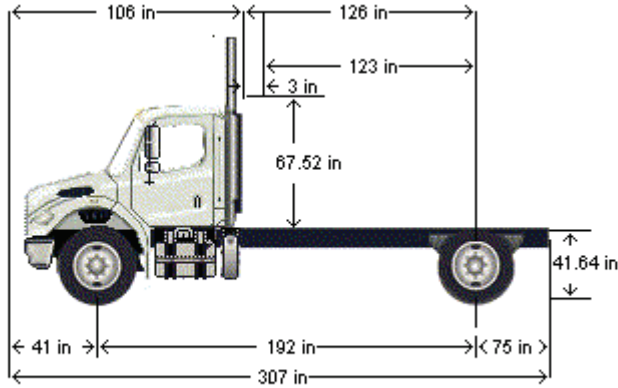
(\*\*\*) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



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**D I M E N S I O N S**



**VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS**

|                                      |   |
|--------------------------------------|---|
| Model .....                          | M2106   |
| Wheelbase (545) .....                | 4875MM (192 INCH) WHEELBASE   |
| Rear Frame Overhang (552).....       | 1900MM (75 INCH) REAR FRAME OVERHANG  |
| Fifth Wheel (578).....               | NO FIFTH WHEEL  |
| Mounting Location (577) .....        | NO FIFTH WHEEL LOCATION   |
| Maximum Forward Position (in).....   | 0   |
| Maximum Rearward Position (in) ..... | 0   |
| Amount of Slide Travel (in).....     | 0   |
| Slide Increment (in).....            | 0   |
| Desired Slide Position (in).....     | 0.0   |
| Cab Size (829).....                  | 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  |
| Sleeper (682).....                   | NO SLEEPER BOX/SLEEPER CAB  |
| Exhaust System (016) .....           | RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE |

**TABLE SUMMARY - DIMENSIONS**



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| Dimensions   | Inches |
|--|--------|
| Bumper to Back of Cab (BBC)  | 106.3  |
| Bumper to Centerline of Front Axle (BA)                            | 40.7   |
| Front Axle to Back of Cab (AC)                                     | 65.6   |
| Min. Cab to Body Clearance (CB)                                    | 3.0    |
| Back of Cab to Centerline of Rear Axle(s) (CA)                     | 126.4  |
| Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA) | 123.4  |
| Back of Cab Protrusions (Exhaust/Intake) (CP)                      | 2.0    |
| Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)             | 0.0    |
| Back of Cab Protrusions (CNG Tank)                                 | 0.0    |
| Back of Cab Clearance (CL)   | 3.0    |
| Back of Cab to End of Frame  | 201.2  |
| Cab Height (CH)  | 67.5   |
| Wheelbase (WB)   | 191.9  |
| Frame Overhang (OH)  | 74.8   |
| Overall Frame Length   | 305.7  |
| Overall Length (OAL)   | 307.5  |
| Rear Axle Spacing  | 0.0    |
| Unladen Frame Height at Centerline of Rear Axle                    | 41.6   |

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.





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Right Fuel Tank Horizontal CG (in) ..... 0

**TABLE SUMMARY - TRUCK WEIGHT**

| Item                            | Front(s)    | Rear(s)     | Total        |
|---------------------------------|-------------|-------------|--------------|
| Chassis Tare                    | 7539        | 4870        | 12409        |
| Fuel / Oil                      | 239         | 247         | 486          |
| Driver                          | 379         | 121         | 500          |
| Dealer Installed Options        | 0           | 0           | 0            |
| Accessories Total               | 0           | 0           | 0            |
| Body Tare                       | 557         | 2643        | 3200         |
| <b>Truck Tare Weight</b>        | <b>8714</b> | <b>7881</b> | <b>16595</b> |
| Payload Total                   | 0           | 0           | 0            |
| <b>Calculated Axle Loads</b>    | <b>8714</b> | <b>7881</b> | <b>16595</b> |
| Expected Axle Loads / GVW       | 12000       | 30000       | 80000        |
| GAWR / GVWR                     | 12000       | 24020       | 36020        |
| Payload CG From Front of Body   |             | 7.5 feet    |              |
| Payload CG From Front Axle      |             | 13.2 feet   |              |
| Payload Distribution            |             | Variable    |              |
| All weights displayed in pounds |             |             |              |

| Item                            | Front(s)    | Rear(s)     | Total        |
|---------------------------------|-------------|-------------|--------------|
| Chassis Tare                    | 7539        | 4870        | 12409        |
| Fuel / Oil                      | 239         | 247         | 486          |
| Driver                          | 379         | 121         | 500          |
| Dealer Installed Options        | 0           | 0           | 0            |
| Accessories Total               | 0           | 0           | 0            |
| Body Tare                       | 557         | 2643        | 3200         |
| <b>Truck Tare Weight</b>        | <b>8714</b> | <b>7881</b> | <b>16595</b> |
| Payload Total                   | 0           | 0           | 0            |
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| All weights displayed in pounds |             |             |              |



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Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



# EXHIBIT B-1

## LIMITED WARRANTY

**Limited Warranty:** Each machine manufactured by Thermo-Lay Manufacturing (or “the Company”) is warranted against defects in material and workmanship for a period of twelve (12) months, provided the machine is used in a normal and reasonable manner and in accordance with all operating instructions. In addition, certain machines and components of certain machines have extended warranties as set forth below. If sold to an end user for rental purposes, the applicable warranty period commences from the date of delivery to the end user. If used for rental purposes, the applicable warranty period commences from the date the machine is first made available for rental by the Company or its representative. The limited warranty may be enforced by any subsequent transferee during the warranty period. This limited warranty is the sole and exclusive warranty given by the Company.

**Exclusive Remedy:** Should any warranted product fail during the warranty period, the Company will cause to be repaired or replaced, as the Company may elect, any part or parts of such machine that the Company’s examination discloses to be defective in material or factory workmanship. Repairs or replacements are to be made at the selling Thermo-Lay Manufacturing distributor’s location or at other locations approved by the Company. In lieu of repair or replacement, the Company may elect, at its sole discretion, to refund the purchase price of any product deemed defective. The foregoing remedies shall be sole and exclusive remedies of any party making a valid warranty claim.

This Limited Warranty shall not apply to (and the Company shall not be responsible for):

1. Major components or trade accessories that have a separate warranty from their original manufacturer, such as, but not limited to, trucks, engines, hydraulic pumps and motors, tires, and batteries.
2. Normal adjustments and maintenance services.
3. Normal wear parts such as, but not limited to, oils, fluids, light bulbs, fuses, and gaskets.
4. Failures resulting from the machine being operated in a manner or for a purpose not recommended by the Company.
5. Repairs, modification, or alternations without express written consent of the Company, which in the Company’s sole judgment, have adversely affected the machine’s stability, operation or reliability as originally designed and manufactured.
6. Items subject to misuse, negligence, accident, or improper maintenance.

\*NOTE\* The use in the product of any part other than parts approved by the Company may invalidate this warranty. The Company reserves the right to determine, in its sole discretion, if the use of non-approved parts operates to invalidate the warranty. Nothing contained in this warranty shall make the Company liable for loss, injury, or damage of any kind to any person or entity resulting from any defect or failure of the machine.

THIS WARRANTY SHALL BE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, OR IMPLIED. INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH ARE DISCLAIMED.

This warranty is in lieu of all other obligations or liabilities, contractual and otherwise, on the part of the Company. For the avoidance of doubt, the Company shall not be liable for any indirect, special, incidental, or consequential damages, including but not limited to, loss of use or lost profits. The Company makes no representation that the machine has the capacity to perform any functions other than as contained in the Company’s literature, catalogs or specifications accompanying delivery of the machine. No person or affiliated company representative is authorized to alter the terms of this warranty, to give any other warranties or to assure any other liability on behalf of the Company in connection with the sales, servicing or repair of any machine manufactured by the Company. Any legal action based hereon must be commenced within twelve (12) months of the event or facts giving rise to such action.

The Company reserves the right to make design changes or improvements to its products without imposing any obligation upon itself to change or improve previously manufactured products.



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406-259-9525  
[www.thermo-lay.com](http://www.thermo-lay.com) | [info@thermo-lay.com](mailto:info@thermo-lay.com)



# WARRANTY

The warranty administrator at Thermo-Lay Manufacturing may be reached in the following ways:

Telephone: 406-259-9525  
Email: [Parts@Thermo-Lay.com](mailto:Parts@Thermo-Lay.com)  
Email: [Info@Thermo-Lay.com](mailto:Info@Thermo-Lay.com)

Thermo-Lay Manufacturing  
Attn: Warranty Department  
1953 E. Commercial Street  
Meridian, ID 83642

Parts requested under the warranty will be shipped with the understanding that the defective or filed parts are to be returned to Thermo-Lay within thirty (30) days. When parts are requested, the Warranty Department will require the equipment's serial number and a brief description of the failure or defect. The equipment's serial number and a brief description of the failure or defect **MUST** accompany any part being returned to the factory for warranty.

**Parts must be returned and received by Thermo-Lay within thirty (30) days of the initiation date. Parts not returned within thirty (30) days will result in a rejection of the claim and the replacement parts shipped will be due and payable.**

The shipment must be freight pre-paid to:  
Thermo-Lay Manufacturing  
1953 E. Commercial Street  
Meridian, ID 83642

Return C.O.D. shipments will not be accepted. Return freight for approved claims will be reimbursed.

If Thermo-Lay determines that the parts do not need to be returned for warranty processing, the dealer/customer will be notified by email by Thermo-Lay.

Upon receipt of the part(s) Thermo-Lay will inspect the parts to make a determination of warranty. Thermo-Lay will notify the dealer/customer within sixty (60) days of the initiation date of the warranty.

**NOTE: Failure to return the requested parts within the set time frame will void the warranty claim.**

## EXCLUSIONS AND LIMITATIONS

The warranty labor repair time allowances are based on actual or replacement times only. Warranty repairs are to be performed only at the authorized distributor's location or a facility approved by Thermo-Lay. If a warranty repair is to be completed by someone other than the authorized Thermo-Lay distributor, pre-approval must be obtained. If approval is granted, the warranty claim must clearly indicate who did the work, and a copy of their invoice must be attached electronically to the claim. Any third-party contractor will be allowed only the Standard Repair Time that would have been allowed the dealer. Travel time will be paid for actual time, up to a maximum of three (3) hours per claim. Travel hours will be reimbursed at ½ the warranty labor rate established for the dealer. There are no allowances made for the following costs or any similar field service expenses:

## EXCLUSIONS AND LIMITATIONS

- Mileage
- Towing or hauling
- Fuel
- Phone calls
- Normal maintenance service
- Repairs due to initial faulty repair
- Road test of machine
- Diagnostic time, except when pre-approved for a qualified operation
- Dealer freight transfers between locations. The warranty does not apply to the following or any similar failures or costs unless it is the result of being directly damaged by the warrantable failure of a covered component.
- Failures caused by neglect, abuse, accident, misapplication, alterations to the machine after leaving the factory, failures caused by non-Thermo-Lay parts or acts of vandalism.
- Administrative fees
- Lodging
- Air freight
- Normal wear items
- Inspection services
- Oils, fluids, and filters
- Pre-delivery service and checks
- Routine adjustments
- Testing of repairs

**WARRANTY REIMBURSEMENT WILL BE ISSUED AS A CREDIT TO THE DEALER/CUSTOMERS ACCOUNT.**



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# Time and Distance Tables

## 1.1 Freightliner Level II (Factory Released On or After 01/07/2013)

| <i>Level II coverage is not available for vehicles in this vocation:</i>   |  | <i>Mining</i>         |
|--|--|-----------------------|
| Category Determinants  |  |                       |
| Road Surface - most severe in-transit between sites                        | Up to 30% off-highway rough, maintained concrete/asphalt; maintained gravel/crushed rock; maintained dirt or soft soil                             |                       |
|  | Models with limitations: Columbia, Century, or Coronado - Up to 10% off-highway rough, maintained concrete/asphalt; maintained gravel/crushed rock |                       |
| Gross Combined Weight Rating   | 140,000 lb/63 505 kg or less   |                       |
|  | -Doubles on NY turnpikes are rated 143,000 lb  |                       |
|  | -Doubles on FL turnpikes are rated 147,000 lb  |                       |
| Axles and Manufacturer's Gross Vehicle Weight Rating                       |  |                       |
| 2-Axle Unit  | 49,000 lb/21 000 kg or less  |                       |
| 3-Axle Unit  | 69,000 lb/31 000 kg or less  |                       |
| 4-Axle Unit  | 89,000 lb/40 000 kg or less  |                       |
| 5-Axles or More  | 98,000 lb/44 452 kg or less  |                       |
| Coverage <sup>1</sup>  |  |                       |
| Description  | Time <sup>2</sup>  | Distance <sup>2</sup> |
| Basic Vehicle  | 1 Year   | 100,000 mi/161 000 km |
| Battery  | 1 Year   | 100,000 mi/161 000 km |
| Brightwork   | 6 Months   | Unlimited             |
| Cab Corrosion/Perforation  | 5 Years  | Unlimited             |
| Cab Structure  | 3 Years  | 150,000 mi/241 000 km |
| Corrosion  | 6 Months   | Unlimited             |
| Crossmembers   | 5 Years  | 300,000 mi/483 000 km |
| Detroit Assurance <sup>3</sup>   | 3 Years  | 300,000 mi/483 000 km |
| Emission Regulations <sup>4</sup>  |  |                       |
| Diesel Emission 2010 <sup>5</sup>  | 5 Years  | 100,000 mi/161 000 km |
| GHG21 <sup>6</sup> (Medium Heavy Duty to Heavy Heavy Duty Trucks/Tractors) | 5 Years  | 100,000 mi/161 000 km |
| GHG21 <sup>6</sup> Tire (File Direct)                                      | 2 Years  | 24,000 mi/38 400 km   |
| Frame Rails  | 5 Years  | 300,000 mi/483 000 km |
| Front/Steer Axle <sup>7</sup>  |  |                       |
| Detroit <sup>8</sup>   | 2 Years  | Unlimited             |
| Non-Detroit  | 2 Years  | 100,000 mi/161 000 km |
| Paint  | 1 Year   | 100,000 mi/161 000 km |
| Paint, Chassis   | 6 Months   | Unlimited             |
| Rear Axle <sup>9</sup>   |  |                       |
| Detroit <sup>8</sup>   | 2 Years  | Unlimited             |
| Non-Detroit  | 2 Years  | 100,000 mi/161 000 km |
| Transfer Case  | 2 Years  | 100,000 mi/161 000 km |

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| Coverage <sup>1</sup>      |                   |                         |
|----------------------------|-------------------|-------------------------|
| Description                | Time <sup>2</sup> | Distance <sup>2</sup>   |
| Transmission <sup>10</sup> |                   |                         |
| Detroit DT-12 <sup>8</sup> | 5 Years           | 750,000 mi/1 200 000 km |
| Non-Detroit                | 2 Years           | 100,000 mi/161 000 km   |

<sup>1</sup> Because Warranty coverage is determined by a unit's specifications, gross combination weight rating, road surface, and vocation, coverage may vary. For unit-specific coverage, Dealers should enter a product serial number or vehicle identification number on the *Coverage Info* screen in OWL; for customers without access to OWL, see ordering Dealer for more information.

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

<sup>3</sup> Coverage applies to vehicles spec'd with Detroit Assurance; this option is available on the Cascadia and New Cascadia.

<sup>4</sup> See *Emission Regulations* subsection that follows or separate engine owner's manual for regulatory information.

<sup>5</sup> Applies to vehicles equipped with EPA 2010 compliant diesel engines.

<sup>6</sup> Applies to models 2013 and later domiciled in the United States and Canada.

<sup>7</sup> Customers will have only one (1) type of front/steer axle coverage, either Detroit or non-Detroit, depending on how the unit is spec'd. Front axle coverage is also applicable to gliders. Detroit coverage may vary due to vocation, unit specifications, etc.; table shows the minimum coverage possible. For instructions on accessing unit-specific coverage, please see footnote 1 above.

<sup>8</sup> Access Detroit parchments at *DTNACconnect > Warranty Lit > Coverages > Detroit*; for customers without access, see ordering Dealer for more information.

<sup>9</sup> Customers will have only one (1) type of rear axle coverage, either Detroit or non-Detroit, depending on how the unit is spec'd. Detroit coverage may vary due to vocation, unit specifications, etc.; table shows the minimum coverage possible. For instructions on accessing unit-specific coverage, please see footnote 1 above.

<sup>10</sup> Customers will have only one (1) type of transmission coverage, either Detroit or non-Detroit, depending on how the unit is spec'd.

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**1.2 Freightliner Level II (Factory Released Prior to 01/07/2013)**

|   |  |                             |
|---|--|-----------------------------|
| <i>Level II coverage is not available for vehicles in this vocation:</i>      |  | <i>Mining</i>               |
| <b>Category Determinants</b>  |  |                             |
| Road Surface - most severe in-transit between sites                           | Up to 30% off-highway rough, maintained concrete/asphalt; maintained gravel/crushed rock; maintained dirt or soft soil                             |                             |
|   | Models with limitations: Columbia, Century, or Coronado - Up to 10% off-highway rough, maintained concrete/asphalt; maintained gravel/crushed rock |                             |
| Gross Combined Weight Rating  | 140,000 lb/63 505 kg or less<br>-Doubles on NY turnpikes are rated 143,000 lb<br>-Doubles on FL turnpikes are rated 147,000 lb                     |                             |
| <b>Axles and Manufacturer's Gross Vehicle Weight Rating</b>                   |  |                             |
| 2-Axle Unit   | 46,000 lb/20 865 kg or less  |                             |
| 3-Axle Unit   | 66,000 lb/29 937 kg or less  |                             |
| 4-Axle Unit   | 86,000 lb/39 008 kg or less  |                             |
| 5-Axles or More   | 98,000 lb/44 452 kg or less  |                             |
| <b>Coverage<sup>1</sup></b>   |  |                             |
| <b>Description</b>  | <b>Time<sup>2</sup></b>  | <b>Distance<sup>2</sup></b> |
| Basic Vehicle   | 1 Year   | 100,000 mi/161 000 km       |
| Battery   | 1 Year   | 100,000 mi/161 000 km       |
| Brightwork  | 6 Months   | Unlimited                   |
| Cab Corrosion/Perforation   | 5 Years  | Unlimited                   |
| Cab Structure   | 3 Years  | 150,000 mi/241 000 km       |
| Corrosion   | 6 Months   | Unlimited                   |
| Crossmembers  | 5 Years  | 300,000 mi/483 000 km       |
| Emission Regulations <sup>3</sup>   |  |                             |
| Diesel Emission 2010 <sup>4</sup>   | 5 Years  | 100,000 mi/161 000 km       |
| GHG14/17 <sup>5</sup> (Medium Heavy Duty to Heavy Heavy Duty Trucks/Tractors) | 5 Years  | 100,000 mi/161 000 km       |
| GHG14/17 <sup>5</sup> Tire (File Direct)                                      | 2 Years  | 24,000 mi/38 400 km         |
| Frame Rails   | 5 Years  | 300,000 mi/483 000 km       |
| Front/Steer Axle <sup>6</sup>   |  |                             |
| Detroit <sup>7</sup>  | 2 Years  | Unlimited                   |
| Non-Detroit   | 2 Years  | 100,000 mi/161 000 km       |
| Paint   | 1 Year   | 100,000 mi/161 000 km       |
| Paint, Chassis  | 6 Months   | Unlimited                   |
| Rear Axle <sup>8</sup>  |  |                             |
| Detroit <sup>7</sup>  | 2 Years  | Unlimited                   |
| Non-Detroit   | 2 Years  | 100,000 mi/161 000 km       |
| Transfer Case   | 2 Years  | 100,000 mi/161 000 km       |

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| Coverage <sup>1</sup>      |                   |                         |
|----------------------------|-------------------|-------------------------|
| Description                | Time <sup>2</sup> | Distance <sup>2</sup>   |
| Transmission <sup>9</sup>  |                   |                         |
| Detroit DT-12 <sup>7</sup> | 5 Years           | 750,000 mi/1 200 000 km |
| Non-Detroit                | 2 Years           | 100,000 mi/161 000 km   |

<sup>1</sup> Because Warranty coverage is determined by a unit's specifications, gross combination weight rating, road surface, and vocation, coverage may vary. For unit-specific coverage, Dealers should enter a product serial number or vehicle identification number on the *Coverage Info* screen in OWL; for customers without access to OWL, see ordering Dealer for more information.

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

<sup>3</sup> See *Emission Regulations* subsection that follows or separate engine owner's manual for regulatory information.

<sup>4</sup> Applies to vehicles equipped with EPA 2010 compliant diesel engines.

<sup>5</sup> Applies to models 2013 and later domiciled in the United States and Canada.

<sup>6</sup> Customers will have only one (1) type of front/steer axle coverage, either Detroit or non-Detroit, depending on how the unit is spec'd. Front axle coverage is also applicable to gliders. Detroit coverage may vary due to vocation, unit specifications, etc.; table shows the minimum coverage possible. For instructions on accessing unit-specific coverage, please see footnote 1 above.

<sup>7</sup> Access Detroit parchments at *DTNACconnect > Warranty Lit > Coverages > Detroit*; for customers without access, see ordering Dealer for more information.

<sup>8</sup> Customers will have only one (1) type of rear axle coverage, either Detroit or non-Detroit, depending on how the unit is spec'd. Detroit coverage may vary due to vocation, unit specifications, etc.; table shows the minimum coverage possible. For instructions on accessing unit-specific coverage, please see footnote 1 above.

<sup>9</sup> Customers will have only one (1) type of transmission coverage, either Detroit or non-Detroit, depending on how the unit is spec'd.

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# Coverage Descriptions

Based on a unit's specifications, New Product Limited Warranty (Warranty) coverage applies. For unit-specific coverage information (time/distance amounts and component descriptions), enter a product serial number or vehicle identification number (VIN) on the *Check Info/Check Coverage* screen in Online Warranty Link (OWL). Use time and distance tables in conjunction with the coverage description paragraphs; if a coverage is applicable, it will be included as a row in the table.

## 2.1 Axles

### Front/Steer Axle

#### Detroit

A steer axle is non-powered. Coverage includes all axle components supplied/manufactured by Detroit Diesel Corporation (Detroit). Warrantable components could include, but not be limited to, I-beam, steering knuckles, spindles, kingpins, kingpin bearings, and steering arms. Tie rod assembly and boots may have a different coverage period; see specific coverage row. *Excluded components could include, but not be limited to, wheel end equipment and steering linkage components.*

#### Non-Detroit

A front/steer axle can be a front powered or non-powered axle. Coverage applies to factory-installed axles and 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, driveline(s), U-joints, kingpin bushings, kingpin seals, tag axle(s), pusher axle(s), and any axle installed by a service location or body builder.*

### 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 applies to factory-installed axles and includes all components included in the individual build specification of each individual application. *Excludes any axle installed by a service location or body builder.*

### Rear/Drive Axle

#### Detroit

A rear drive axle can be a single or tandem axle configuration. Coverage includes all axle components supplied/manufactured by Detroit. Warrantable components could include, but not be limited to, axle housing, carrier assembly, differential assembly, power divider, and axle shafts. Seals and gaskets may have a different coverage period; see specific coverage row. *Excluded components could include, but not be limited to, suspension and torque rod brackets, wheel end equipment, wiring, yokes, and attaching hardware.*

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## Non-Detroit

A rear axle could be a drive, non-drive, or tandem axle. Coverage applies to factory-installed axles and 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, driveline(s), U-joints, attaching hardware, tag axle(s), pusher axle(s), and any axle installed by a service location or body builder.*

## 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 applies to factory-installed axles and includes all components included in the individual build specification of each individual application. *Excludes any axle installed by a service location or body builder.*

## 2.2 Basic Chassis/Vehicle

**Note:** Basic Chassis applies to Freightliner Custom Chassis Corporation (FCCC) products; Basic Vehicle applies to Freightliner, Western Star, and Thomas Built Buses (TBB) products.

Coverage includes all factory-installed components of the chassis/vehicle that are not excluded elsewhere in the Warranty or described as having a different time, or distance, or hours, or listed separately on each new vehicle coverage table. See the Warranty Manual for a complete list of exceptions and exclusions. Also excluded are components warranted directly by component manufacturer.

## 2.3 Batteries

\*Detroit brand batteries of the same group and amperage are interchangeable with Alliance brand batteries and carry the same coverage period.

### Standard Battery

Coverage includes Alliance,\* EnerSys (NorthStar, Odyssey), and DTNA Genuine brand batteries only; claims for all other brands must be submitted directly to the supplier. Includes starting battery assemblies and factory-installed auxiliary power unit (APU) battery assemblies. *Excludes non-Alliance, non-EnerSys, and non-DTNA Genuine brand batteries, battery cables, battery mounting box, and hardware.*

### Cranking Battery Only

Coverage includes Alliance,\* EnerSys (NorthStar, Odyssey), and DTNA Genuine brand batteries only; claims for all other brands must be submitted directly to the supplier. Cranking battery warranty includes factory-installed cranking (starter) battery assemblies only. *Excludes APU battery assemblies, non-Alliance, non-EnerSys, and non-DTNA Genuine brand batteries, battery cables, battery mounting box, and hardware.*

### Auxiliary Battery Only

Coverage includes Alliance,\* EnerSys (NorthStar, Odyssey), and DTNA Genuine brand batteries only; claims for all other brands must be submitted directly to the supplier. Auxiliary battery warranty includes factory-installed APU battery assemblies only. *Excludes cranking (starter) battery assemblies, non-Alliance, non-EnerSys, and non-DTNA Genuine brand batteries, battery cables, battery mounting box, and hardware.*

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## 2.4 Brightwork

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

## 2.5 Cab Corrosion/Perforation

Coverage is limited to rust-through or perforation of the cab and integral sleeper structure and sleeper box 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 and any damage to paint such as chips or scratches.*

## 2.6 Cab Structure

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

## 2.7 Corrosion

Coverage includes Warranty against corrosion to any metal or metal alloy part of the vehicle.

Excludes:

- Corrosion caused by general rust (e.g., rust on the unfinished backside of a bumper)
- Surface rust caused by chips or scratches in the paint or chrome surfaces
- Corrosion caused by 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 due to improper use, misuse, or abuse, negligence, including improper or insufficient maintenance
- Corrosion due to ocean spray
- Corrosion due to environmental damage, including airborne fallout (includes chemicals, tree sap, etc.), or other atmospheric conditions, or other acts of nature
- Corrosion due to damage caused by high-pressure washing
- 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

## 2.8 Cowl Corrosion

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 and any damage to the paint such as chips or scratches.*

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## 2.9 Cowl Structure

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

## 2.10 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.*

## 2.11 Driveline

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

## 2.12 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 attached with either conventional or huck bolts.*

## 2.13 Glider

A glider is a vehicle that may be ordered without major components. Coverage includes all components identified on the build specification.

## 2.14 Hybrid Transmission - Eaton

Eaton requires that only hybrid-authorized dealerships work on units equipped with Eaton hybrid parts. Pre-authorization is required prior to 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 Parts Distribution Centers (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, AC/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 refer to Roadranger Warranty Guide TCWY0900 for more information on complete listing of limits and exclusions, as well as terms and conditions.

## 2.15 Paint (Body, Cab, Cowl)

### Body Paint

Coverage includes all factory-painted exterior body surfaces and defects such as orange peel, peeling/delaminating, cracking/checking, or loss of gloss due to cracking, checking, or hazing. *Excludes lack of gloss issues on vehicles painted with low gloss colors; the undersides of hoods and roofs and side mounted air fairings; and any damages to the paint or painted surface such as chips and scratches.*

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## Cab Paint

Coverage includes all factory-painted surfaces (except those included in chassis paint coverage) and defects such as orange peel, peeling/delaminating, cracking/checking, or loss of gloss due to cracking, checking, or hazing. *Excludes lack of gloss issues on vehicles painted with low gloss colors; the undersides of hoods and roofs and side mounted air fairings; and any damages to the paint or painted surface such as chips and scratches.*

## Cowl Paint

Coverage includes all factory-painted exterior surfaces of cowl structure (except those included in chassis paint coverage) and defects such as orange peel, peeling/delaminating, cracking/checking, or loss of gloss due to cracking, checking, or hazing. *Excludes lack of gloss issues on vehicles painted with low gloss colors; the undersides of hoods and roofs and side mounted air fairings; and any damages to the paint or painted surface such as chips and scratches.*

## 2.16 Paint (Chassis)

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

## 2.17 Towing/Roadside Assistance

Coverage may include emergency roadside assistance or towing to the nearest Authorized Service Facility for a warrantable repair in a vehicle-down situation that prevents the safe and lawful operation of the vehicle. Verify coverage on the *Coverage Information* screen in OWL; coverage will display as a separate category. If the customer requests towing to a location beyond the distance to the nearest Authorized Service Location, the customer will be responsible for the additional charges.

## 2.18 Transfer Case

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

## 2.19 Transmission

### Detroit

Coverage includes all transmission components supplied/manufactured by Detroit. *Excludes maintenance items.*

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## Non-Detroit

Coverage does not include Allison 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, clutch assemblies, driveline(s), and U-joints.*

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# New Product Limited Warranty Statements

The following section outlines standard Limited Warranty (Warranty) statements for all new Daimler Trucks North America LLC (DTNA; Company) products sold by DTNA and domiciled in the USA (50 states and Washington, D.C.) and Canada. As necessary, information below may be divided by DTNA product type (vehicle/axle); this information is also included in the applicable Owner's Warranty Information Booklet.

Based on a product's specifications, Warranty coverage varies. For product-specific coverage information (time/distance amounts and component descriptions), enter a product serial number or vehicle identification number (VIN) on the *Coverage Information* screen in the OWL. General time/distance amounts and coverage descriptions are available by DTNA brand at *DTNAConnect > Warranty Lit > Other Warranty Documents > [Coverages](#)*.

## 3.1 New Vehicle Limited Warranty Statement

Under this New Vehicle Limited Warranty, DTNA 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 DTNA Service Location 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.

DTNA 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.

## 3.2 New Powertrain Component Statements

Engine components are covered by two types of warranties, the standard Limited Warranty and the Emission Control Systems Warranty, a requirement of the U.S. (Federal) Clean Air Act and Canada Motor Vehicle Safety Act. Axle and transmission components are covered by the standard Limited Warranty.

## New Powertrain Component Limited Warranty

The New Product Limited Warranty covers product repairs to correct any malfunction occurring during the Warranty period resulting from defects in material or workmanship. This Limited Warranty applies to the first retail purchaser and subsequent retail owners during the applicable Warranty period of new powertrain components manufactured by Detroit Diesel and/or supplied by Detroit Diesel or Detroit Diesel of Canada Limited (all which are collectively referred to as Detroit), subject to certain limitations and exclusions as specified in this document.

The Warranty period begins on the date the product is delivered to the first retail purchaser or put in use prior to sale at retail, whichever occurs first, and ends at the specified time or distance limits.

The cost of service supplies which are not reusable due to needed repairs is covered by this Warranty. Reasonable towing costs to the nearest authorized service facility are covered when due to warrantable failure, the powertrain component is either inoperable, cannot be safely operated, or continued operation would cause further damage to the product. Detroit will pay reasonable travel expenses for the repairing mechanic to travel to and from the repair site.

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## Engine Major Component Warranty Coverage

Engine major component warranty covers casting defects. Casted engine major components are: cylinder block/head, crankshaft, camshaft, main bearing bolts, flywheel housing, connecting rod assemblies, oil cooler housing, oil coolant module casting, water pump housing, and air inlet housing. Coverage is for the failed engine major component only; labor and additional parts are excluded. Progressive damage is limited to only the engine major component(s) affected by the failure.

Engines used in the on-highway application may carry longer coverage on engine major components; review the applicable Warranty parchment for coverage:

- MBE4000, Series 60, DD13, DD15, DD16 diesel fueled engines in on-highway applications (on-highway refers to a truck or coach designed and used to carry passengers and/or cargo, primarily on streets or paved highways)

## Emission Control Systems Warranty

For detailed information about product compliance with U.S. and Canadian law regarding design, build, and equipment, see the [Emission Regulations \(Diesel Vehicles\)](#) section. Please note that emission-related components no longer covered under the Limited Warranty described above may still be covered under the Emission Control Systems Warranty.

### Certified Engines and Engine Parts

The Warranty period shall begin on the date the vehicle is delivered to the first retail purchaser or, if the vehicle is first placed in service as a demonstrator prior to sale at retail, on the date the vehicle is first placed in such service. Emission related defects in the genuine Company components listed in the [Emission Regulations \(Diesel Vehicles\)](#) section, including reasonable related diagnostic costs, are covered by this Warranty.

Covered components and component terminology varies from engine to engine. Some scheduled maintenance is required (refer to the Owner's Emission Control Maintenance Service Chart which is included in the Warranty Information booklet). Please check the specific Warranty Information Booklet to determine which components are covered by the emissions control systems warranty.

Service Locations should refer to the applicable Engine Warranty Information booklet to determine if a particular component is covered by the Emission Control Systems Warranty, as the components covered differ on each engine type as well as from year to year.

## 3.3 Limitations

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

This Warranty does not apply to non-Detroit 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, 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.

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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 product to comply with this Warranty and Purchaser must, at Purchaser's expense, promptly return the unit 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 Product 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 product 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 showing 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.

### 3.4 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.

### 3.5 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 PRODUCT 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 PRODUCT USE.

### 3.6 Emission Regulations (Diesel Vehicles)

Vehicles and engines are designed, built, and equipped so as to conform, at the time of sale, with requirements of manufacturers whose vehicles and engines are designed to meet applicable Greenhouse Gas (GHG) and Fuel Efficiency Standards of the U.S. (Federal) Environmental Protection Agency (EPA), Emission Regulations under the Canada Motor Vehicle Safety Act in Canada, and the California Air Resources Board (CARB). Engines and vehicles are free from defects in material and workmanship which cause the engine or vehicle to fail to conform with

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those regulations for the Warranty period. The Warranty period is 100,000 miles or five (5) years of operation, whichever occurs first, or the New Product Warranty, if the product warranty is longer for all emission-related components except tires and 24,000 miles or two (2) years, whichever occurs first, for the tires.

The Warranty obligations are not dependent upon the use of any particular brand of replacement parts. The Owner may elect to use non-Genuine Company Parts for replacement purposes. Use of replacement parts which are not of equivalent quality may impair the effectiveness of emission control systems. If other than Genuine Company Parts are used for maintenance replacements or for the repair of components affecting emission controls, the Owner should assure himself/herself that such parts are warranted by their manufacturer to be equivalent to Genuine Company Parts in performance and durability.

Coverage exclusions are listed in *Coverage Exclusions* elsewhere in this section.

| <b>Warranted Components</b>  |                      |                             |   |                |                             |
|--|----------------------|-----------------------------|---|----------------|-----------------------------|
| Unless otherwise noted, the Warranty period is 5 years/100,000 miles, whichever occurs first, or the New Product Warranty, if the product Warranty is longer for all emission-related components except tires.   |                      |                             |   |                |                             |
| Diesel engines certified to California model year 2022 and later standards come with emission warranty periods of 5 years/150,000 miles if medium heavy duty and 5 years/350,000 miles if heavy heavy duty.  |                      |                             |   |                |                             |
| Coverage is determined based on engine and vehicle emissions model year. To determine an engine's emissions model year, refer to the EPA/CARB certification label on the engine. To determine the vehicle's emissions model year, refer to the EPA/CARB certification label on the driver's door or door jamb. |                      |                             |   |                |                             |
| Components <sup>1</sup>  | Diesel Emission 2010 |                             | Gasoline Evaporative Emission 2011 <sup>2</sup> | GHG21          |                             |
|  | Detroit Engine       | DTNA Installed <sup>3</sup> | DTNA Installed                                  | Detroit Engine | DTNA Installed <sup>4</sup> |
| A-Pillar Turning Vane  |                      |                             |   |                | X                           |
| Aerodynamic Quarter Fenders  |                      |                             |   |                | X                           |
| Aerodynamic Roof Fairings  |                      |                             |   |                | X                           |
| Aerodynamic Roof Fairings (Adjustable Height)  |                      |                             |   |                | X                           |
| Aerodynamic Side Fairings  |                      |                             |   |                | X                           |
| Aerodynamic Wheel Covers   |                      |                             |   |                | X                           |
| Aftertreatment System (ATS) Aftertreatment Control Module (ACM)  | X                    |                             |   | X              |                             |
| Air Cleaner (Excludes Filter Element)  |                      |                             | X   |                |                             |
| Air Conditioning Component Leakage   |                      |                             |   |                | X                           |
| Air Intake Pipes   |                      |                             | X   |                |                             |
| Air Intake Resonator   |                      |                             | X   |                |                             |
| Ambient Air Temperature (AAT) Sensor   |                      |                             |   |                | X                           |
| ATS Aftertreatment Device (ATD) Wiring Harness   | X                    |                             |   | X              |                             |

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| Components <sup>1</sup>  | Diesel Emission 2010 |                                | Gasoline<br>Evaporative<br>Emission 2011 <sup>2</sup> | GHG21             |                                |
|--|----------------------|--------------------------------|---|-------------------|--------------------------------|
|  | Detroit<br>Engine    | DTNA<br>Installed <sup>3</sup> | DTNA Installed  | Detroit<br>Engine | DTNA<br>Installed <sup>4</sup> |
| ATS Diesel Exhaust Fluid (DEF) Coolant Supply Valve & DEF Coolant Lines  |                      | X                              |   |                   |                                |
| ATS DEF Pump   | X                    |                                |   | X                 |                                |
| ATS DEF Fuel Rail Pressure Sensor  | X                    |                                |   | X                 |                                |
| ATS DEF Fuel Pressure Sensor (Low)   | X                    |                                |   | X                 |                                |
| ATS DEF Low Dosing Unit  | X                    |                                |   | X                 |                                |
| ATS DEF System Air Pressure Regulator & Associated Air Lines   |                      | X                              |   |                   |                                |
| ATS DEF System Chassis Interface Harness   |                      | X                              |   |                   |                                |
| ATS DEF Tank   |                      | X                              |   |                   |                                |
| ATS DEF Tank DEF Level Gauge   |                      | X                              |   |                   |                                |
| ATS DEF Tank DEF Temperature Sensor  |                      | X                              |   |                   |                                |
| ATS DEF Tank Heater Tubing   |                      | X                              |   |                   |                                |
| ATS DEF Temperature Sensor NOX Sensors   | X                    |                                |   | X                 |                                |
| ATS Diesel Oxidation Catalyst (DOC) Inlet Temperature Sensor   | X                    |                                |   | X                 |                                |
| ATS DOC Outlet Temperature Sensor  | X                    |                                |   | X                 |                                |
| ATS Diesel Particulate Filter (DPF) Inlet Pressure Sensor  | X                    |                                |   | X                 |                                |
| ATS DPF Outlet Pressure Sensor   | X                    |                                |   | X                 |                                |
| ATS DPF Outlet Temperature Sensor  | X                    |                                |   | X                 |                                |
| ATS Doser Block Assembly   | X                    |                                |   | X                 |                                |
| ATS Electrically-Heated DEF Lines  |                      | X                              |   |                   |                                |
| ATS Fuel Doser Valve   | X                    |                                |   | X                 |                                |
| ATS Oxidation Catalyst   | X                    |                                |   | X                 |                                |
| ATS Particulate Filter   | X                    |                                |   | X                 |                                |
| ATS Selective Catalytic Reduction (SCR) Catalyst   | X                    |                                |   | X                 |                                |
| Automatic Engine Shutdown Timer - Sleep Cab Tractors:<br>Includes Auxiliary Technologies (Battery or Diesel Auxiliary Power Unit, Fuel-Operated Heater, Engine Start-Stop) |                      |                                |   |                   | X                              |
| Automatic Engine Shutdown Timer - Vocational   |                      |                                |   |                   | X                              |
| Automatic Tire Inflation System  |                      |                                |   |                   | X                              |
| Cam Sensor   |                      |                                | X   |                   |                                |

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| Components <sup>1</sup>                                      | Diesel Emission 2010 |                                | Gasoline<br>Evaporative<br>Emission 2011 <sup>2</sup> | GHG21             |                                |
|--|----------------------|--------------------------------|---|-------------------|--------------------------------|
|  | Detroit<br>Engine    | DTNA<br>Installed <sup>3</sup> | DTNA Installed  | Detroit<br>Engine | DTNA<br>Installed <sup>4</sup> |
| Camshaft Position Sensor                                     | X                    |                                |   | X                 |                                |
| Catalytic Converter  |                      |                                | X   |                   |                                |
| Charge Air Cooler  |                      | X                              |   |                   |                                |
| Charge Air Cooler Outlet Sensor                              | X                    |                                |   | X                 |                                |
| Chassis Fairing Skirts                                       |                      |                                |   |                   | X                              |
| Coolant Outlet Temperature Sensor                            | X                    |                                |   | X                 |                                |
| Coolant Sensor   |                      |                                | X   |                   |                                |
| Crank Sensor   |                      |                                | X   |                   |                                |
| Crankshaft Position Sensor                                   | X                    |                                |   | X                 |                                |
| Data Link Connector  |                      | X                              | X   |                   | X                              |
| Delta P Sensor   | X                    |                                |   | X                 |                                |
| Drive Wheel Fairings   |                      |                                |   |                   | X                              |
| Engine Coolant Temp Sensor                                   |                      |                                | X   |                   |                                |
| Engine Control Module (ECM)                                  |                      |                                | X   |                   |                                |
| Engine Start/Stop System                                     |                      |                                |   |                   | X                              |
| Evap Canister & Evap Canister Vent Solenoid                  |                      |                                | X   |                   |                                |
| Exhaust Gas Piping from the Turbocharger out to the Last ATD |                      | X                              |   |                   |                                |
| Exhaust Gas Recirculation (EGR) Cooler                       | X                    |                                |   | X                 |                                |
| EGR Valve & Actuator   | X                    |                                |   | X                 |                                |
| Exhaust Manifold & Exhaust Manifold Gaskets                  |                      |                                | X   |                   |                                |
| Exhaust Pipes (Between Exhaust Manifold & Catalyst)          |                      |                                | X   |                   |                                |
| Fuel Injectors   | X                    |                                | X   | X                 |                                |
| Fuel Lines   |                      |                                | X   |                   |                                |
| Fuel Rail  |                      |                                | X   |                   |                                |
| Fuel Tank  |                      |                                | X   |                   |                                |
| Fuel Tank Fairings (Chassis Fairings)                        |                      |                                |   |                   | X                              |
| Fuel Tank Pressure Sensor                                    |                      |                                | X   |                   |                                |
| Fuel Temperature Sensor                                      | X                    |                                |   | X                 |                                |
| Gap Reducing Fairings  |                      |                                |   |                   | X                              |

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| Components <sup>1</sup>  | Diesel Emission 2010 |                                | Gasoline<br>Evaporative<br>Emission 2011 <sup>2</sup> | GHG21             |                                |
|--|----------------------|--------------------------------|---|-------------------|--------------------------------|
|  | Detroit<br>Engine    | DTNA<br>Installed <sup>3</sup> | DTNA Installed  | Detroit<br>Engine | DTNA<br>Installed <sup>4</sup> |
| Gas Cap  |                      |                                | X   |                   |                                |
| High Pressure Fuel Pump  | X                    |                                |   | X                 |                                |
| Ignition Coils   |                      |                                | X   |                   |                                |
| Intake Manifold Pressure Sensor  | X                    |                                |   | X                 |                                |
| Intake Manifold Temperature Sensor   | X                    |                                |   | X                 |                                |
| Intake Throttle Valve & Adaptor  | X                    |                                |   | X                 |                                |
| Knock Sensors  |                      |                                | X   |                   |                                |
| Malfunction Indicator Lamp (MIL)   |                      | X                              | X   |                   | X                              |
| Manifold Absolute Pressure (MAP) Sensor  |                      |                                | X   |                   |                                |
| Mass Air Flow Sensor   |                      |                                | X   |                   |                                |
| Motor Control Module (MCM)   | X                    |                                |   | X                 |                                |
| Neutral at Stop - Allison Automatic Transmissions <sup>5</sup>   |                      |                                |   |                   | X                              |
| Neutral Coast - Detroit eCoast, Cummins/Eaton Smart-Coast <sup>5</sup>   |                      |                                |   |                   | X                              |
| Oxygen (O <sub>2</sub> ) Sensors   |                      |                                | X   |                   |                                |
| Oil Fill Cap   |                      |                                | X   |                   |                                |
| Oil Temperature Sensor   | X                    |                                |   | X                 |                                |
| Positive Crankcase Ventilation (PCV) Hose (Engine to Air Intake Pipe)  |                      |                                | X   |                   |                                |
| Predictive Cruise Control - Detroit Intelligent Powertrain Management (IPM), Cummins Predictive Cruise Control |                      |                                |   |                   | X                              |
| Purge Control Valve  |                      |                                | X   |                   |                                |
| Rear Axles <sup>5</sup>  |                      |                                |   |                   | X                              |
| Roof Spoilers  |                      |                                |   |                   | X                              |
| Side Extenders   |                      |                                |   |                   | X                              |
| Spark Plugs <sup>6</sup>   |                      |                                | X   |                   |                                |
| Spark Plug Wires   |                      |                                | X   |                   |                                |
| Temperature-Barometric Air Pressure Sensor   |                      |                                |   |                   | X                              |
| Throttle Body  |                      |                                | X   |                   |                                |
| Throttle Pedal   |                      |                                | X   |                   |                                |

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| Components <sup>1</sup>                        | Diesel Emission 2010 |                             | Gasoline Evaporative Emission 2011 <sup>2</sup> | GHG21          |                             |
|--|----------------------|-----------------------------|---|----------------|-----------------------------|
|  | Detroit Engine       | DTNA Installed <sup>3</sup> | DTNA Installed                                  | Detroit Engine | DTNA Installed <sup>4</sup> |
| Tire Pressure Monitoring System                |                      |                             |   |                | X                           |
| Tires <sup>7</sup>                             |                      |                             |   |                | X                           |
| Transmissions <sup>5</sup>                     |                      |                             |   |                | X                           |
| Transmission Control Module                    |                      |                             | X   |                |                             |
| Transmission Speed Sensor                      |                      |                             | X   |                |                             |
| Turbo Speed Sensor                             | X                    |                             |   | X              |                             |
| Turbocharger                                   | X                    |                             |   | X              |                             |
| Vapor Lines                                    |                      |                             | X   |                |                             |
| Vehicle Speed Limiter                          |                      |                             |   |                | X                           |
| Vehicle Speed Sensor (Transmission Main Shaft) |                      | X                           |   |                | X                           |
| Wait to Start Indicator/Lamp                   |                      |                             |   |                | X                           |

<sup>1</sup> Per California Emission Control Systems Warranty Statement, DTNA must warrant the emission control system components for the vehicle in accordance with either Diesel Emission 2010 or Gasoline Evaporative Emission 2011, whichever is applicable.

<sup>2</sup> Coverage period is 5 years/50,000 miles (80 500 km), whichever occurs first.

<sup>3</sup> The following are excluded under Emissions coverage but are covered under standard New Vehicle Warranty coverage:

- ATS ACM Mounting Bracket and Protective Cover
- DEF Tank Mounting Brackets/Hardware
- DEF Pump Mounting and Protective Cover

<sup>4</sup> Diesel Emission 2010 components and emission-related defects in the marked components listed are included in this coverage. Coverage duration:

- Spark-ignition engines and light heavy-duty vehicles – 5 years/50,000 miles (80 500 km), whichever occurs first
- Compression ignition engines and medium and heavy heavy-duty vehicles – 5 years/100,000 miles (161 000 km), whichever occurs first

<sup>5</sup> To the extent warranted under component manufacturers' GHG21 emission-related warranty responsibilities, as detailed in warranty documentation.

<sup>6</sup> Spark plugs are warranted under Basic Chassis coverage or until the first required maintenance, whichever comes first.

<sup>7</sup> Coverage period is 2 years/24,000 miles, whichever occurs first. File claims directly to tire manufacturer.

## 3.7 Coverage Exclusions

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

**Note:** Parts found defective prior to installation must be filed as a Parts Adjustment Request (PAR) to the Parts Distribution Center (PDC).

### Aerodynamic Wheel Covers

Aerodynamic wheel covers are excluded from coverage under Warranty.

**Note:** Mounting loose covers on Freightliner Cascadia trucks may be reimbursed; varies by model/specifications.

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## 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 Warranty.

## Alignment of Axles/Wheels/Steering Wheel

Each DTNA vehicle manufacturing plant uses an integrated alignment system to align axles and wheels and to center the steering wheel to DTNA 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 service location and Owner after delivery from factory. These special adjustments are not covered under Warranty.

## Axle Breather Vents

During the 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 (e.g., rust on the unfinished backside of a bumper)

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- 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 photo 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, product in-service, a 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 product 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 (24 000 km) for all DTNA vehicles except TBB bodies and chassis. TBB consumable parts are covered up to 30 calendar days from the date of in-service. These items are:

- Antennas (exception: satellite radio antennas)
- Ashtrays
- Belts
- Brake linings
- Cigarette lighter assembly
- Clutch brake
- Clutch linings
- Data logger batteries
- Desiccant cartridges
- Fire extinguishers
- Flash tubes
- Fluorescent ballast and tubes
- Fuses
- Gladhand
- Hosetennas

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- Light bulbs\*
- Lower center bumper air dam
- Mattresses
- Mud flaps
- Mud flap mounting brackets
- Caps (including, but not limited to, DEF, fuel, radiator, surge tank)
- Receiver-drier filter
- Trailer air hoses
- Trailer electrical cables
- Windshield washer nozzles
- Wiper arms and blades (TBB makes - wiper blades only)

\* *Sealed light and LED assemblies are not considered consumable.*

The cost of consumable parts which are not reusable due to needed warrantable repairs is covered by this Warranty; examples include but are not limited to:

- Antifreeze
- Coolant
- Filters
- Fluids
- Grease/lubricants
- Oil

## 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, Aftermarket Parts Warranty, or Extended Service Coverage.

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

- Corrosion caused by general rust (e.g., 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
- 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

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## Damage

The following are not covered under 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 non-factory approved 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

Any DTNA engine in a vehicle on which odometer mileage has been changed so the mileage cannot be readily determined is excluded from Warranty.

Non-DTNA engines, including all of its components as supplied by the non-Company engine manufacturer, are excluded from Warranty but are warranted separately by the manufacturer of the engine. For non-DTNA 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 Jake Brake® component must be filed directly to the engine manufacturer.

Failures on Company engines and 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.

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## 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

Conditions excluded from Warranty include but are not limited to:

- Breakage
- Chips
- Scratches
- Cracks

## Initial Operating Period

During a vehicle's Initial Operating Period (IOP), repair on components found loose and included on a scheduled maintenance table may be reimbursed by Company. The IOP for DTNA vehicles is as follows:

| Make                                    | IOP <sup>1</sup>                          |
|---|---|
| Freightliner, Western Star              | Up to 15,000 miles/24 000 km <sup>2</sup> |
| FCCC                                    | Up to 25,000 miles/40 000 km <sup>2</sup> |
| TBB Bodies and TBB Chassis <sup>3</sup> | Up to 6 months from in-service date       |

<sup>1</sup> IOP does not apply to powertrain components.

<sup>2</sup> The IOP begins at zero (0) distance; the in-service distance does not affect the IOP distance limits.

<sup>3</sup> TBB applications utilizing FCCC chassis retain the FCCC IOP separate from the TBB body.

Routine 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; associated repairs/adjustments are covered under Basic Warranty unless the distance at which the condition occurs exceeds the published maintenance interval for the component.

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- Components included on a scheduled maintenance table that have loosened at a time or distance exceeding the first scheduled maintenance or outside the IOP, whichever is greater, are not covered under Warranty and are the responsibility of the customer.

| Components Found Loose and Included on a Scheduled Maintenance Table | Prior to First Scheduled Maintenance | After First Scheduled Maintenance |
|--|--------------------------------------|-----------------------------------|
| Within IOP   | File Claim                           | File Claim                        |
| Outside IOP  | File Claim                           | Customer Responsibility           |

- Components that do not appear on scheduled maintenance tables are not subject to IOP limitations and are covered per the applicable coverage and exclusions.

Consumable items are addressed separately from IOP; see [Consumable Parts](#) elsewhere in this section for details.

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 IOP.
- Claims for re-routing of electrical wiring, hoses, or lines which meet DTNA's routing standards will not be paid under Warranty during or after the IOP. However, if during the IOP, evidence of a potential failure (e.g., rubbing or chaffing that would lead to a short in a wire or a hole in a hose/line) is found where a line, hose, or electrical wiring is mis-installed and is making contact with one of the following, a one-time claim for correcting the routing will be accepted:
  - Hot surface
  - Moving part
  - Sharp edge

Such claims should be filed with *28 - Part Improperly Installed* as the Cause code; photos that clearly show evidence of rubbing or chaffing due to mis-installation must be available upon request.

**Note:** Preventative re-routing for other conditions not listed above is not considered warrantable. However, if a line, hose, or electrical wiring actually fails (i.e., leaks or shorts) due to rubbing or chaffing on any surface, such failures are covered per the applicable coverage and exclusions.

- Final preparation of the vehicle for Customer delivery to include cleaning/vacuuming interior of cab, washing windows, washing the exterior of the vehicle, and polishing exterior chromed or painted surfaces are considered as ordering location responsibilities. Claims for these activities will not be paid under Warranty during or after the IOP.

## Loose Components

During the manufacturing process, certain components are placed in the cab of the vehicle or strapped down to the chassis. It is the service location's responsibility to mount these shipped loose items in the correct location on the vehicle. Mounting the shipped loose items below will not be covered under Warranty.

These items include, but may not be limited to:

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- Aerodynamic wheel covers
  - Exception: Mounting covers on Freightliner Cascadia trucks may be reimbursed; varies by model/specifications
- Antennas
- Chrome lug nut covers
- Decals & paperwork
- Driver's pouch
- Fire extinguishers
- Jacks
- License plate brackets
- Mattress
- Reflectors with flares
- Reflectors without flares
- Spare wheels/tires
- Tire inflation hoses
- Trailer cables (air/electrical)
- Winter fronts

## Misapplication of Product

The Warranty on any product used inconsistent with its specified vocation/application will be downgraded to the Warranty that is consistent with product use. Any and all claims associated with the misapplication of the product 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 reimbursed, unless specifically stated elsewhere in the applicable Warranty coverage. 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 and bulk shop supplies (e.g., shop rags, solvents, sweeping compounds, coveralls, etc.)
- Communication charges
- Towing/road call assistance
- For non-powertrain component repairs, the removal, repair, or replacement of:

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- Components/parts and optional items that are not sold or installed by Company
- Equipment installed by a body builder, customer, or service location
- Dynamometer testing on non-Company engines after repairs have been performed
- Shop hardware supplies that are not itemized on the claim as “parts used” (e.g., common bolts, washers, nuts, tie straps, cotter pins, etc.)
- Time spent waiting at a counter to obtain a part, etc.
- Environmental fees, cleanup, or other charges
- Cost of emergency services

## Modifications to Original Equipment

Company does not warrant product modifications or equipment installations unless performed at a Company Custom Truck Services (CTS) Center. In addition, the extra time necessary to remove body builder-installed items and/or equipment to work on a warrantable repair is not covered under this Warranty unless Company sells the complete chassis/body/equipment as a package.

If service locations or Customers perform any product 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 product 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 claims pertaining to gloss issues on vehicles painted with low-gloss colors (as identified in the Truck/Bus Sales Order) will not be covered under Warranty.

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## Routine Maintenance

Routine or preventative 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 (1) time during the applicable IOP unless excluded above.

Reminder: After the IOP, these developments are the result of use and their repair/adjustment activities are considered routine maintenance and thus excluded from Warranty.

## Tampering/Misuse

Conditions resulting from tampering, misuse, improper adjustments, alteration, accident, failure to use recommended fuel or non-performance of required maintenance services are not covered.

It is a violation of U.S. federal law to alter the engine, exhaust plumbing, after treatment system, diesel exhaust fluid system, or other vehicle components in any way that would bring the engine/vehicle out of compliance with certification requirements [Ref: 42 U.S.C. §7522(a)(3)]. It is the Owner's responsibility to maintain the vehicle so that it conforms to EPA regulations.

## Test Products

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

Any product used in endurance testing, such as the Altoona Test, are void of all Warranty, including but not limited to New Product Warranty, Aftermarket Parts Warranty, Extended Service Coverage, or any Company additional or used truck coverage.

## 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.

## Transmissions (Non-Company)

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.

Eaton Hybrid transmissions are not covered under this Warranty.

## 3.8 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 OWL.

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## 3.9 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.

## 3.10 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.

## 3.11 Owner's Responsibilities

DTNA provides Owner's Warranty Information booklets for Company products. When the Owner first receives a Company product, the service location should review the Owner's Warranty Information booklet(s) with the Owner. It is important that the new Owner becomes familiar with the contents about Warranty, parts replacement that affects emission controls, and maintenance service. It is the Owner's responsibility to ensure the product is maintained as outlined in the Driver's/Operator's and Maintenance Manuals and to maintain the vehicle so that it conforms to EPA regulations.

To initiate Warranty, the customer must complete and sign the Warranty Start Form (WAR275); service locations keep the signed form on file and register the vehicle with DTNA for Warranty.

As soon as a problem exists, the Owner is responsible for presenting the product to an Authorized Service Location. The Warranty repairs should be completed in a reasonable amount of time. The Owner should also be aware that DTNA may deny Warranty coverage if the product has failed due to abuse, neglect, improper maintenance, or unapproved modifications. DTNA recommends that Owners retain all receipts regarding product maintenance but Company cannot deny Warranty solely for the lack of receipts.

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