



# State of Nebraska - INVITATION TO BID CONTRACT

Date	3/18/22	Page	2 of 2
Solicitation Number	6651 OF REIBD		
Opening Date and Time	04/08/22	2:00 pm	
Buyer	ROBERT TAYLOR (AS)		

**DESTINATION OF GOODS**  
DEPARTMENT OF TRANSPORTATION  
5001 S 14TH ST  
PO BOX 94759  
LINCOLN NE 68509-4759

## INVITATION

Line	Description	Quantity	Unit of Measure	Unit Price	Extended Price
5	OUTLET FOR VENT & OVERFLOW FOR ASPHALT DIST. ROUTED	2.0000	EA	<u>INCLUDED</u>	<u>INCLUDED</u>
6	OPT. FOR 16' SPRAY BAR	2.0000	EA	<u>2,250.00</u>	<u>4,500.00</u>
7	OPT. FOR 18' SPRAY BAR	2.0000	EA	<u>N/A</u>	<u>N/A</u>
8	OPT. FOR 20' SPRAY BAR	2.0000	EA	<u>N/A</u>	<u>N/A</u>
9	FRONT SUCTION IN ADDITION TO REAR	2.0000	EA	<u>5,900.00</u>	<u>11,800.00</u>
10	HEATED SUMP PUMP AND DROP TUBES	2.0000	EA	<u>11,250.00</u>	<u>22,500.00</u>
11	NOZZLE RANGE INDICATOR	2.0000	EA	<u>INCLUDED</u>	<u>INCLUDED</u>
12	SMART CLEAN SYSTEM	2.0000	EA	<u>INCLUDED</u>	<u>INCLUDED</u>
13	PARTS & TECH SERVICE ENGINE CD ROM MANUALS OR ONLINE	2.0000	EA	<u>ONLINE</u>	<u>ONLINE</u>
14	PARTS & TECH SERVICE TRANSMISS CD ROM MANUALS OR ONLINE	2.0000	EA	<u>ONLINE</u>	<u>ONLINE</u>
15	PARTS & TECH SERVICE ELECTRICA CD ROM MANUALS OR ONLINE	2.0000	EA	<u>ONLINE</u>	<u>ONLINE</u>
16	PARTS & TECH SERVICE DISTIBUTO CD ROM MANUALS OR ONLINE	2.0000	EA	<u>INCLUDED</u>	<u>INCLUDED</u>



**II. TERMS AND CONDITIONS**

**Vendors should complete Section II through VI as part of their bid.** Vendor is expected to read the Terms and Conditions and must initial either accept, reject, or reject and provide alternative language for each clause. The Vendor should also provide an explanation of why the Vendor rejected the clause or rejected the clause and provided alternate language using "Track Changes". Upon request an electronic copy of the bid with "Track Changes" must be submitted in an editable Word format. By signing the solicitation, Vendor is agreeing to be legally bound by all the accepted terms and conditions, and any proposed alternative terms and conditions submitted with the bid. The State reserves the right to negotiate rejected or proposed alternative language. If the State and Vendor fail to agree on the final Terms and Conditions, the State reserves the right to reject the bid. The State is soliciting bids in response to the solicitation. The State reserves the right to reject bids that attempt to substitute the Vendor's commercial contracts and/or documents for this solicitation.

The Vendor should submit with their bid any license, user agreement, service level agreement, or similar documents that the Vendor wants incorporated in the Contract. Upon notice of Intent to Award, the Vendor must submit a copy of these documents in an editable Word format. The State will not consider incorporation of any document not submitted with the Vendor's bid. These documents shall be subject to negotiation and will be incorporated as addendums if agreed to by the Parties.

If a conflict or ambiguity arises after the addendums have been negotiated and agreed to, the addendums shall be interpreted as follows:

1. If only one (1) Party's document has a particular clause then that clause shall control;
2. If both Party's documents have a similar clause, but the clauses do not conflict, the clauses shall be read together;
3. If both Party's documents have a similar clause, but the clauses conflict, the State's clause shall control.

**A. GENERAL**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
bc			

The contract resulting from this solicitation shall incorporate the following documents:

1. Invitation to Bid and Addenda;
2. Amendments to the solicitation;
3. Questions and Answers;
4. Vendor's bid response;
5. The executed Contract and any Addenda, if applicable, and properly submitted documents; and,
6. Amendments to the Contract

These documents constitute the entirety of the contract.

Unless otherwise specifically stated in a future contract amendment, in case of any conflict between the incorporated documents, the documents shall govern in the following order of preference with number one (1) receiving preference over all other documents and with each lower numbered document having preference over any higher numbered document: 1) Amendment to the executed Contract with the most recent dated amendment having the highest priority, 2) executed Contract and any attached Addenda, 3) Amendments to solicitation and any Questions and Answers, 4) the original solicitation document and any Addenda, and 5) the Vendor's submitted Bid.

Any ambiguity or conflict in the contract discovered after its execution, not otherwise addressed herein, shall be resolved in accordance with the rules of contract interpretation as established in the State.

**B. NOTIFICATION**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
bc			

Vendor and State shall identify the contract manager who shall serve as the point of contact for the executed contract.

Communications regarding the executed contract shall be in writing and shall be deemed to have been given if delivered personally or mailed, by U.S. Mail, postage prepaid, return receipt requested, to the parties at their respective addresses, or at such other addresses as may be specified in writing by either of the parties. All notices, requests, or communications shall be deemed effective upon personal delivery or five (5) calendar days following deposit in the mail.

Either party may change its address for notification purposes by giving notice of the change, and setting forth the new address and an effective date.

**C. NOTICE (POC)**

The State reserves the right to appoint a Buyer's Representative to manage [or assist the Buyer in managing] the contract on behalf of the State. The Buyer's Representative will be appointed in writing, and the appointment document will specify the extent of the Buyer's Representative authority and responsibilities. If a Buyer's Representative is appointed, the Vendor will be provided a copy of the appointment document, and is expected to cooperate accordingly with the Buyer's Representative. The Buyer's Representative has no authority to bind the State to a contract, amendment, addendum, or other change or addition to the contract.

**D. GOVERNING LAW (Statutory)**

Notwithstanding any other provision of this contract, or any amendment or addendum(s) entered into contemporaneously or at a later time, the parties understand and agree that, (1) the State of Nebraska is a sovereign state and its authority to contract is therefore subject to limitation by the State's Constitution, statutes, common law, and regulation; (2) this contract will be interpreted and enforced under the laws of the State of Nebraska; (3) any action to enforce the provisions of this contract must be brought in the State of Nebraska per state law; (4) the person signing this contract on behalf of the State of Nebraska does not have the authority to waive the State's sovereign immunity, statutes, common law, or regulations; (5) the indemnity, limitation of liability, remedy, and other similar provisions of the final contract, if any, are entered into subject to the State's Constitution, statutes, common law, regulations, and sovereign immunity; and, (6) all terms and conditions of the final contract, including but not limited to the clauses concerning third-party use, licenses, warranties, limitations of liability, governing law and venue, usage verification, indemnity, liability, remedy or other similar provisions of the final contract are entered into specifically subject to the State's Constitution, statutes, common law, regulations, and sovereign immunity.

The Parties must comply with all applicable local, state and federal laws, ordinances, rules, orders, and regulations.

**E. AMENDMENT**

This Contract may be amended in writing, within scope, upon the agreement of both parties.

**F. CHANGE ORDERS OR SUBSTITUTIONS**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BL			

The State and the Vendor, upon the written agreement, may make changes to the contract within the general scope of the solicitation. Changes may involve specifications, the quantity of work, or such other items as the State may find necessary or desirable. Corrections of any deliverable, service, or work required pursuant to the contract shall not be deemed a change. The Vendor may not claim forfeiture of the contract by reasons of such changes.

The Vendor shall prepare a written description of the work required due to the change and an itemized cost sheet for the change. Changes in work and the amount of compensation to be paid to the Vendor shall be determined in accordance with applicable unit prices if any, a pro-rated value, or through negotiations. The State shall not incur a price increase for changes that should have been included in the Vendor's bid, were foreseeable, or result from difficulties with or failure of the Vendor's bid or performance.

No change shall be implemented by the Vendor until approved by the State, and the Contract is amended to reflect the change and associated costs, if any. If there is a dispute regarding the cost, but both parties agree that immediate implementation is necessary, the change may be implemented, and cost negotiations may continue with both Parties retaining all remedies under the contract and law.

In the event any product is discontinued or replaced upon mutual consent during the contract period or prior to delivery, the State reserves the right to amend the contract or purchase order to include the alternate product at the same price.



\*\*\*Vendor will not substitute any item that has been awarded without prior written approval of SPB\*\*\*

**G. VENDOR PERFORMANCE REPORT(S)**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BC			

The State may document any instance(s) of products or services delivered or performed which exceed or fail to meet the terms of the purchase order, contract, and/or solicitation specifications. The State Purchasing Bureau may contact the Vendor regarding any such report. Vendor performance report(s) will become a part of the permanent record of the Vendor.

**H. NOTICE OF POTENTIAL VENDOR BREACH**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BC			

If Vendor breaches the contract or anticipates breaching the contract, the Vendor shall immediately give written notice to the State. The notice shall explain the breach or potential breach, a proposed cure, and may include a request for a waiver of the breach if so desired. The State may, in its discretion, temporarily or permanently waive the breach. By granting a waiver, the State does not forfeit any rights or remedies to which the State is entitled by law or equity, or pursuant to the provisions of the contract. Failure to give immediate notice, however, may be grounds for denial of any request for a waiver of a breach.

**I. BREACH**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BC			

Either Party may terminate the contract, in whole or in part, if the other Party breaches its duty to perform its obligations under the contract in a timely and proper manner. Termination requires written notice of default and a thirty (30) calendar day (or longer at the non-breaching Party's discretion considering the gravity and nature of the default) cure period. Said notice shall be delivered by Certified Mail, Return Receipt Requested, or in person with proof of delivery. Allowing time to cure a failure or breach of contract does not waive the right to immediately terminate the contract for the same or different contract breach which may occur at a different time.

In case of breach by the Vendor, the State may, without unreasonable delay, make a good faith effort to make a reasonable purchase or contract to purchased goods in substitution of those due from the vendor. The State may recover from the Vendor as damages the difference between the costs of covering the breach. Notwithstanding any clause to the contrary, the State may also recover the contract price together with any incidental or consequential damages defined in UCC Section 2-715, but less expenses saved in consequence of Vendor's breach. OR In case of default of the Vendor, the State may contract the service from other sources and hold the Vendor responsible for any excess cost occasioned thereby.

The State's failure to make payment shall not be a breach, and the Vendor shall retain all available statutory remedies. (See Indemnity - Self-Insurance and Payment)

**J. NON-WAIVER OF BREACH**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:

bc			
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The acceptance of late performance with or without objection or reservation by a Party shall not waive any rights of the Party nor constitute a waiver of the requirement of timely performance of any obligations remaining to be performed.

**K. SEVERABILITY**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
bc			

If any term or condition of the contract is declared by a court of competent jurisdiction to be illegal or in conflict with any law, the validity of the remaining terms and conditions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the contract did not contain the provision held to be invalid or illegal.

**L. INDEMNIFICATION**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
bc			

**1. GENERAL**

The Vendor agrees to defend, indemnify, and hold harmless the State and its employees, volunteers, agents, and its elected and appointed officials ("the indemnified parties") from and against any and all claims, liens, demands, damages, liability, actions, causes of action, losses, judgments, costs, and expenses of every nature, including investigation costs and expenses, settlement costs, and attorney fees and expenses ("the claims"), sustained or asserted against the State for personal injury, death, or property loss or damage, arising out of, resulting from, or attributable to the willful misconduct, negligence, error, or omission of the Vendor, its employees, Subcontractors, consultants, representatives, and agents, resulting from this contract, except to the extent such Vendor liability is attenuated by any action of the State which directly and proximately contributed to the claims.

**2. SELF-INSURANCE (Statutory)**

The State is self-insured for any loss and purchases excess insurance coverage pursuant to Neb. Rev. Stat. § 81-8,239.01 (Reissue 2008). If there is a presumed loss under the provisions of this contract, Vendor may file a claim with the Office of Risk Management pursuant to Neb. Rev. Stat. §§ 81-8,829 through 81-8,306 for review by the State Claims Board. The State retains all rights and immunities under the State Miscellaneous (Section 81-8,294), Tort (Section 81-8,209), and Contract Claim Acts (Section 81-8,302), as outlined in Neb. Rev. Stat. § 81-8,209 et seq. and under any other provisions of law and accepts liability under this contract to the extent provided by law.

**M. ATTORNEY'S FEES**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
bc			

In the event of any litigation, appeal, or other legal action to enforce any provision of the contract, the Parties agree to pay all expenses of such action, as permitted by law and if ordered by the court, including attorney's fees and costs, if the other party prevails.

**N. ASSIGNMENT, SALE, OR MERGER**



Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
de			

Either party may assign the contract upon mutual written agreement of the other party. Such agreement shall not be unreasonably withheld.

The Vendor retains the right to enter into a sale, merger, acquisition, internal reorganization, or similar transaction involving Vendor's business. Vendor agrees to cooperate with the State in executing amendments to the contract to allow for the transaction. If a third party or entity is involved in the transaction, the Vendor will remain responsible for performance of the contract until such time as the person or entity involved in the transaction agrees in writing to be contractually bound by this contract and perform all obligations of the contract.

**O. CONTRACTING WITH OTHER POLITICAL SUB-DIVISIONS OF THE STATE OR ANOTHER STATE**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BC			

The Vendor may, but shall not be required to, allow agencies, as defined in Neb. Rev. Stat. § 81-145, to use this contract. The terms and conditions, including price, of the contract may not be amended. The State shall not be contractually obligated or liable for any contract entered into pursuant to this clause.

The Vendor may, but shall not be required to, allow other states, agencies or divisions of other states, or political subdivisions of other states to use this contract. The terms and conditions, including price, of this contract shall apply to any such contract, but may be amended upon mutual consent of the Parties. The State of Nebraska shall not be contractually or otherwise obligated or liable under any contract entered into pursuant to this clause. The State shall be notified if a contract is executed based upon this contract.

**P. FORCE MAJEURE**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BC			

Neither party shall be liable for any costs or damages, or for default resulting from its inability to perform any of its obligations under the contract due to a natural or man-made event outside the control and not the fault of the affected party ("Force Majeure Event"). The Party so affected shall immediately make a written request for relief to the other party, and shall have the burden of proof to justify the request. The other Party may grant the relief requested; relief may not be unreasonably withheld. Labor disputes with the impacted party's own employees will not be considered a Force Majeure Event.

**Q. CONFIDENTIALITY**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BC			

All materials and information provided by the Parties or acquired by a Party on behalf of the other Party shall be regarded as confidential information. All materials and information provided or acquired shall be handled in accordance with federal and state law, and ethical standards. Should said confidentiality be breached by a Party, the Party shall notify the other Party immediately of said breach and take immediate corrective action.

It is incumbent upon the Parties to inform their officers and employees of the penalties for improper disclosure imposed by the Privacy Act of 1974, 5 U.S.C. 552a. Specifically, 5 U.S.C. 552a (i)(1), which is made applicable by 5

U.S.C. 552a (m)(1), provides that any officer or employee, who by virtue of his/her employment or official position has possession of or access to agency records which contain individually identifiable information, the disclosure of which is prohibited by the Privacy Act or regulations established thereunder, and who knowing that disclosure of the specific material is prohibited, willfully discloses the material in any manner to any person or agency not entitled to receive it, shall be guilty of a misdemeanor and fined not more than \$5,000.

**R. EARLY TERMINATION**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
DC			

The contract may be terminated as follows:

1. The State and the Vendor, by mutual written agreement, may terminate the contract at any time.
2. The State, at its sole discretion, may terminate the contract for any reason upon thirty (30) calendar day's written notice to the Vendor. Such termination shall not relieve the Vendor of warranty or other service obligations incurred under the terms of the contract. In the event of termination the Vendor shall be entitled to payment, determined on a pro rata basis, for products or services satisfactorily performed or provided.
3. The State may terminate the contract immediately for the following reasons:

if directed to do so by statute;

Vendor has made an assignment for the benefit of creditors, has admitted in writing its inability to pay debts as they mature, or has ceased operating in the normal course of business;

a trustee or receiver of the Vendor or of any substantial part of the Vendor's assets has been appointed by a court; fraud, misappropriation, embezzlement, malfeasance, misfeasance, or illegal conduct pertaining to performance under the contract by its Vendor, its employees, officers, directors, or shareholders;

an involuntary proceeding has been commenced by any party against the Vendor under any one of the chapters of Title 11 of the United States Code and (i) the proceeding has been pending for at least sixty (60) calendar days; or (ii) the Vendor has consented, either expressly or by operation of law, to the entry of an order for relief; or (iii) the Vendor has been decreed or adjudged a debtor;

a voluntary petition has been filed by the Vendor under any of the chapters of Title 11 of the United States Code;

Vendor intentionally discloses confidential information;

Vendor has or announces it will discontinue support of the deliverable; and,

In the event funding is no longer available.

**S. CONTRACT CLOSEOUT**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
DC			

Upon termination of the contract for any reason the Vendor shall within thirty (30) days, unless stated otherwise herein:

1. Transfer all completed or partially completed deliverables to the State;
2. Transfer ownership and title to all completed or partially completed deliverables to the State;
3. Return to the State all information and data, unless the Vendor is permitted to keep the information or data by contract or rule of law. Vendor may retain one copy of any information or data as required to comply with applicable work product documentation standards or as are automatically retained in the course of Vendor's routine back up procedures;
4. Cooperate with any successor contractor, person or entity in the assumption of any or all of the obligations of this contract;
5. Cooperate with any successor contractor, person or entity with the transfer of information or data related to this contract;
6. Return or vacate any state owned real or personal property; and,



7. Return all data in a mutually acceptable format and manner.

Nothing in this Section should be construed to require the Vendor to surrender intellectual property, real or person property, or information or data owned by the Vendor for which the State has no legal claim.

**III. VENDOR DUTIES**

**A. INDEPENDENT VENDOR / OBLIGATIONS**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
AC			

It is agreed that the Vendor is an independent vendor and that nothing contained herein is intended or should be construed as creating or establishing a relationship of employment, agency, or a partnership.

The Vendor is solely responsible for fulfilling the contract. The Vendor or the Vendor's representative shall be the sole point of contact regarding all contractual matters.

The Vendor shall secure, at its own expense, all personnel required to perform the services under the contract. The personnel the Vendor uses to fulfill the contract shall have no contractual or other legal relationship with the State; they shall not be considered employees of the State and shall not be entitled to any compensation, rights or benefits from the State, including but not limited to, tenure rights, medical and hospital care, sick and vacation leave, severance pay, or retirement benefits.

By-name personnel commitments made in the Vendor's bid shall not be changed without the prior written approval of the State. Replacement of these personnel, if approved by the State, shall be with personnel of equal or greater ability and qualifications.

The Vendor warrants that all persons assigned to the project shall be employees of the Vendor or a Subcontractor, and shall be fully qualified to perform the work required herein. Personnel employed by the Vendor or a subcontractor to fulfill the terms of the contract shall remain under the sole direction and control of the Vendor or the subcontractor respectively.

With respect to its employees, the Vendor agrees to be solely responsible for the following:

1. Any and all pay, benefits, and employment taxes and/or other payroll withholding;
2. Any and all vehicles used by the Vendor's employees, including all insurance required by state law;
3. Damages incurred by Vendor's employees within the scope of their duties under the contract;
4. Maintaining Workers' Compensation and health insurance that complies with state and federal law and submitting any reports on such insurance to the extent required by governing law;
5. Determining the hours to be worked and the duties to be performed by the Vendor's employees; and,
6. All claims on behalf of any person arising out of employment or alleged employment (including without limit claims of discrimination alleged against the Vendor, its officers, agents, or subcontractors or subcontractor's employees).

If the Vendor intends to utilize any subcontractor, the Subcontractor's level of effort, tasks, and time allocation must be clearly defined in the Vendor's bid. The Vendor shall agree that it will not utilize any Subcontractors not specifically included in its bid in the performance of the contract without the prior written authorization of the State.

The State reserves the right to require the Vendor to reassign or remove from the project any Vendor or Subcontractor employee.

Vendor shall insure that the terms and conditions contained in any contract with a sub-vendor does not conflict with the terms and conditions of this contract.

The Vendor shall include a similar provision, for the protection of the State, in the contract with any Subcontractor engaged to perform work on this contract.

**B. EMPLOYEE WORK ELIGIBILITY STATUS**

The Vendor is required and hereby agrees to use a federal immigration verification system to determine the work eligibility status of employees physically performing work within the State. A federal immigration verification system means the electronic verification of the work authorization program authorized by the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, 8 U.S.C. 1324a, known as the E-Verify Program, or an equivalent federal program designated by the United States Department of Homeland Security or other federal agency authorized to verify the work eligibility status of an employee.



If the Vendor is an individual or sole proprietorship, the following applies:

1. The Vendor must complete the United States Citizenship Attestation Form, available on the DAS website at <http://das.nebraska.gov/materiel/purchasing.html>

The completed United States Attestation Form should be submitted with the solicitation response.

2. If the Vendor indicates on such attestation form that he or she is a qualified alien, the Vendor agrees to provide the U.S. Citizenship and Immigration Services documentation required to verify the Vendor's lawful presence in the United States using the Systematic Alien Verification for Entitlements (SAVE) Program.
3. The Vendor understands and agrees that lawful presence in the United States is required and the Vendor may be disqualified or the contract terminated if such lawful presence cannot be verified as required by Neb. Rev. Stat. § 4-108.

**C. COMPLIANCE WITH CIVIL RIGHTS LAWS AND EQUAL OPPORTUNITY EMPLOYMENT / NONDISCRIMINATION (Statutory)**

The Vendor shall comply with all applicable local, state, and federal statutes and regulations regarding civil rights laws and equal opportunity employment. The Nebraska Fair Employment Practice Act prohibits Vendors of the State, and their Subcontractors, from discriminating against any employee or applicant for employment, with respect to hire, tenure, terms, conditions, compensation, or privileges of employment because of race, color, religion, sex, disability, marital status, or national origin (Neb. Rev. Stat. §§ 48-1101 through 48-1125). The Vendor guarantees compliance with the Nebraska Fair Employment Practice Act, and breach of this provision shall be regarded as a material breach of contract. The Vendor shall insert a similar provision in all Subcontracts for goods or services to be covered by any contract resulting from this solicitation.

**D. COOPERATION WITH OTHER VENDORS**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
De			

Vendor may be required to work with or in close proximity to other vendors or individuals that may be working on the same or different projects. The Vendor shall agree to cooperate with such other vendors or individuals, and shall not commit or permit any act which may interfere with the performance of work by any other vendor or individual. Vendor is not required to compromise Vendor's intellectual property or proprietary information unless expressly required to do so by this contract.

**E. DISCOUNTS**

Prices quoted shall be inclusive of ALL trade discounts. Cash discount terms of less than thirty (30) days will not be considered as part of the bid. Cash discount periods will be computed from the date of receipt of a properly executed claim voucher or the date of completion of delivery of all items in a satisfactory condition, whichever is later.

**F. PRICES**

Prices quoted shall be net, including transportation and delivery charges fully prepaid by the vendor, F.O.B. destination named in the solicitation. No additional charges will be allowed for packing, packages, or partial delivery costs. When an arithmetic error has been made in the extended total, the unit price will govern.

Prices submitted on the cost bid form, once accepted by the State, shall remain fixed for the first One hundred twenty days (120) of the contract. The request for a price increase must be submitted in writing to the State Purchasing Bureau a minimum of 30 days prior to the end of the current contract period. Documentation may be required by the State to support the price increase.

**The State reserves the right to deny any requested price increase. No price increases are to be billed to any State Agencies prior to written amendment of the contract by the parties.**

**The State will be given full proportionate benefit of any decreases for the term of the contract.**

**G. COST CLARIFICATION**

The State reserves the right to review all aspects of cost for reasonableness and to request clarification of any bid where the cost component shows significant and unsupported deviation from industry standards or in areas where detailed pricing is required.

**H. PERMITS, REGULATIONS, LAWS**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
bc			

The contract price shall include the cost of all royalties, licenses, permits, and approvals, whether arising from patents, trademarks, copyrights or otherwise, that are in any way involved in the contract. The Vendor shall obtain and pay for all royalties, licenses, and permits, and approvals necessary for the performance of the contract. The Vendor must guarantee that it has the full legal right to the materials, supplies, equipment, software, and other items used to execute this contract.

**I. NOTICE OF POTENTIAL VENDOR BREACH**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
bc			

If Vendor breaches the contract or anticipates breaching the contract the Vendor shall immediately give written notice to the State. The notice shall explain the breach or potential breach, and may include a request for a waiver of the breach if so desired. The State may, at its discretion, temporarily or permanently waive the breach. By granting a temporary waiver, the State does not forfeit any rights or remedies to which the State is entitled by law or equity, or pursuant to the provisions of the contract. Failure to give immediate notice, however, may be grounds for denial of any request for a waiver of a breach.

**J. ANTITRUST**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
bc			

The Vendor hereby assigns to the State any and all claims for overcharges as to goods and/or services provided in connection with this contract resulting from antitrust violations which arise under antitrust laws of the United States and the antitrust laws of the State.

**K. CONFLICT OF INTEREST**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
bc			

By submitting a bid, bidder certifies that no relationship exists between the bidder and any person or entity which either is, or gives the appearance of, a conflict of interest related to this Request for Bid or project.

Bidder further certifies that bidder will not employ any individual known by bidder to have a conflict of interest nor shall bidder take any action or acquire any interest, either directly or indirectly, which will conflict in any manner or degree with the performance of its contractual obligations hereunder or which creates an actual or appearance of conflict of interest.



If there is an actual or perceived conflict of interest, bidder shall provide with its bid a full disclosure of the facts describing such actual or perceived conflict of interest and a proposed mitigation plan for consideration. The State will then consider such disclosure and proposed mitigation plan and either approve or reject as part of the overall bid evaluation.

**L. ADVERTISING**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
Be			

The Vendor agrees not to refer to the contract award in advertising in such a manner as to state or imply that the company or its goods and services are endorsed or preferred by the State. Any publicity releases pertaining to the project shall not be issued without prior written approval from the State.

**M. NEBRASKA TECHNOLOGY ACCESS STANDARDS (Statutory)**

Vendor shall review the Nebraska Technology Access Standards, found at <http://nitc.nebraska.gov/standards/2-201.htm> and ensure that products and/or goods provided under the contract are in compliance or will comply with the applicable standards to the greatest degree possible. In the event such standards change during the Vendor's performance, the State may create an amendment to the contract to request the contract comply with the changed standard at a cost mutually acceptable to the parties.

**N. DISASTER RECOVERY/BACK UP PLAN**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
BC			

The Vendor shall have a disaster recovery and back-up plan, of which a copy should be provided upon request to the State, which includes, but is not limited to equipment, personnel, facilities, and transportation, in order to continue delivery of goods and services as specified under the specifications in the contract in the event of a disaster.

**O. DRUG POLICY**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
Be			

Vendor certifies it maintains a drug free work place environment to ensure worker safety and workplace integrity. Vendor agrees to provide a copy of its drug free workplace policy at any time upon request by the State.

**P. WARRANTY**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
Be			

Despite any clause to the contrary, the Vendor represents and warrants that its services hereunder shall be performed by competent personnel and shall be of professional quality consistent with generally accepted industry standards for the performance of such services and shall comply in all respects with the requirements of this Contract. For any breach of this warranty, the Vendor shall, for a period of ninety (90) days from performance of the service, perform the services again, at no cost to Customer, or if Vendor is unable to perform the services as warranted, Vendor shall reimburse Customer the fees paid to Vendor for the unsatisfactory services. The rights and remedies of the parties under this warranty are in addition to any other rights and remedies of the parties provided by law or equity, including, without limitation actual damages, and, as applicable and awarded under the law, to a prevailing party, reasonable attorneys' fees and costs.

**IV. PAYMENT**

**A. PROHIBITION AGAINST ADVANCE PAYMENT (Statutory)**

Neb. Rev. Stat. §§81-2403 states, “[n]o goods or services shall be deemed to be received by an agency until all such goods or services are completely delivered and finally accepted by the agency.”

**B. TAXES (Statutory)**

The State is not required to pay taxes and assumes no such liability as a result of this solicitation. The Vendor may request a copy of the Nebraska Department of Revenue, Nebraska Resale or Exempt Sale Certificate for Sales Tax Exemption, Form 13 for their records. Any property tax payable on the Vendor's equipment which may be installed in a state-owned facility is the responsibility of the Vendor.

**C. INVOICES**

Invoices for payments must be submitted by the Vendor to the agency requesting the services with sufficient detail to support payment. The terms and conditions included in the Vendor's invoice shall be deemed to be solely for the convenience of the parties. No terms or conditions of any such invoice shall be binding upon the State, and no action by the State, including without limitation the payment of any such invoice in whole or in part, shall be construed as binding or estopping the State with respect to any such term or condition, unless the invoice term or condition has been previously agreed to by the State as an amendment to the contract.

**D. INSPECTION AND APPROVAL**

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
de			

Final inspection and approval of all work required under the contract shall be performed by the designated State officials.

**E. PAYMENT (Statutory)**

Payment will be made by the responsible agency in compliance with the State of Nebraska Prompt Payment Act (See Neb. Rev. Stat. §81-2403). The State may require the Vendor to accept payment by electronic means such as ACH deposit. In no event shall the State be responsible or liable to pay for any goods and services provided by the Vendor prior to the Effective Date of the contract, and the Vendor hereby waives any claim or cause of action for any such services.

**F. LATE PAYMENT (Statutory)**

The Vendor may charge the responsible agency interest for late payment in compliance with the State of Nebraska Prompt Payment Act (See Neb. Rev. Stat. §§ 81-2401 through 81-2408).

**G. SUBJECT TO FUNDING / FUNDING OUT CLAUSE FOR LOSS OF APPROPRIATIONS (Statutory)**

The State's obligation to pay amounts due on the Contract for fiscal years following the current fiscal year is contingent upon legislative appropriation of funds. Should said funds not be appropriated, the State may terminate the contract with respect to those payments for the fiscal year(s) for which such funds are not appropriated. The State will give the Vendor written notice thirty (30) calendar days prior to the effective date of termination. All obligations of the State to make payments after the termination date will cease. The Vendor shall be entitled to receive just and equitable compensation for any authorized work which has been satisfactorily completed as of the termination date. In no event shall the Vendor be paid for a loss of anticipated profit.

**H. RIGHT TO AUDIT (First Paragraph is Statutory)**

The State shall have the right to audit the Vendor's performance of this contract upon a thirty (30) day written notice. Vendor shall utilize generally accepted accounting principles, and shall maintain the accounting records, and other records and information relevant to the contract (Information) to enable the State to audit the contract. (Neb. Rev. Stat. § 84-304 et seq.) The State may audit and the Vendor shall maintain the information during the term of the contract and for a period of five (5) years after the completion of this contract or until all issues or litigation are resolved, whichever is later. The Vendor shall make the Information available to the State at Vendor's place of business or a location acceptable to both Parties during normal business hours. If this is not practical or the Vendor so elects, the Vendor may provide electronic or paper copies of the Information. The State reserves the right to examine, make copies of, and take notes on any Information relevant to this contract, regardless of the form or the Information, how it is stored, or who possesses the Information. In no circumstances will vendor be required to create



or maintain documents not kept in the ordinary course of vendor's business operations, nor will vendor be required to disclose any information, including but not limited to product cost data, which is confidential or proprietary to vendor.

Accept (Initial)	Reject (Initial)	Reject & Provide Alternative (Initial)	NOTES/COMMENTS:
be			

The Parties shall pay their own costs of the audit unless the audit finds a previously undisclosed overpayment by the State. If a previously undisclosed overpayment exceeds one-half of one percent (.5%) of the total contract billings, or if fraud, material misrepresentations, or non-performance is discovered on the part of the Vendor, the Vendor shall reimburse the State for the total costs of the audit. Overpayments and audit costs owed to the State shall be paid within ninety (90) days of written notice of the claim. The Vendor agrees to correct any material weaknesses or condition found as a result of the audit.

## V. SCOPE OF WORK

The Vendor must provide the following information in response to this solicitation

### A. SCOPE

It is the intent of this bid invitation to establish a contract to supply **Truck Chassis Minimum 52,000 pound GVWR with Asphalt Distributor** per the attached specifications from date of award for a period of two (2) years with the option to renew for an additional three (3) one (1) year periods when mutually agreeable to the vendor and the State. The State reserves the right to extend the period of this contract beyond the end date when mutually agreeable to the vendor and the State.

All items proposed shall be of the latest manufacture in production as of the date of the solicitation and be of proven performance and under standard design complete as regularly advertised and marketed. All necessary materials for satisfactory performance of the supplies shall be incorporated into the **Truck Chassis Minimum 52,000 pound GVWR with Asphalt Distributor**, whether or not they may be specifically mentioned below.

Complete specifications, manufacturer's current descriptive literature and/or advertising data sheets with cuts or photographs must be included with the bid for the IDENTICAL items proposed. Any information necessary to show compliance with these specifications not given on the manufacturer's descriptive literature and/or advertising data sheets must be supplied in writing on or attached to the bid document. If manufacturer's information necessary to show compliance with these specifications is not attached to the bid document, the Vendor may be required to submit requested information within three (3) business days of a written request. Failure to submit requested descriptive literature or advertising data sheets may be grounds to reject the bid.



**VI. TECHNICAL SPECIFICATIONS**

**VENDOR INSTRUCTIONS**

Vendor must respond to each of the following statements. Specifications listed are minimum conditions that must be met in order for a Vendor to qualify for the award.

"YES" response means the Vendor guarantees they can meet this condition.

"NO" response means the Vendor cannot meet this condition and will not be considered.

"NO & PROVIDE ALTERNATIVE" responses should be used only with a narrative response in the NOTES/COMMENTS section explaining in detail any deviation from the Vendor's ability to meet the condition, and an explanation of how this would be determined to be an acceptable alternative to meeting the condition. Alternatives must be detailed in such a way that allows such deviations to be fully evaluated. The State shall determine at its sole discretion whether or not the Vendor's alternative is an acceptable alternative.

**A. NON-COMPLIANCE STATEMENT**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Read these specifications carefully. Any and all exceptions to these specifications must be written on or attached to solicitation response. Any noncompliance may void your bid. Non-compliance to any single specification can void your bid.
X			2. It is the responsibility of Vendors to obtain information and clarifications as provided below. The State is not responsible for any erroneous or incomplete understandings or wrongful interpretations of this solicitation by any Vendor.
X			3. No interpretation related to the meaning of solicitation specifications or other pre-bid documents will be made orally to any Vendor by the State. Any solicitation interpretation must be put in writing by the Vendor to the State Purchasing Bureau, E-mail questions to SPB. <a href="mailto:as.materieipurchasing@nebraska.gov">as.materieipurchasing@nebraska.gov</a> by the last day to submit written questions per the Schedule of Events. (Inquiries received after the last day to submit written questions may not be addressed).
<b>NOTES/COMMENTS:</b>			

**B. BASIC SPECIFICATIONS**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Shall not be less than 52,000 pounds GVWR.
X			2. Wheelbase shall conform to distributor manufacturer's recommended length to fit Cab-to Axle specification and frame length specification
X			3. Cab to axle distance shall be approximately 138 inches.
X			4. Frame resisting bending moment shall equal or exceed 1,800,000 inch pounds
<b>NOTES/COMMENTS:</b>			

C. TRANSMISSION

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Allison 3500 RDS six speed automatic transmission withhold feature in all gears and an oil temperature gauge or warning system on or near dash. Transmission to be most compatible with engine horsepower and torque.
X			2. Auxiliary transmission 2 to 1 ratio. Reduction to allow for high RPM while spraying material.
X			3. Synthetic oil to be installed in transmission.
NOTES/COMMENTS:			

D. CHASSIS

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. <u>Minimum</u> 14,000 pounds rated capacity in front with thrust bearing on kingpin required.
X			2. <u>OIL FILLED, FRONT WHEEL HUBS WITH WINDOW REQUIRED.</u>
X			3. Manufacturer's recommended front shock absorbers for GVWR.
X			4. Dual reduction tandem axle is acceptable if manufacturer does not offer single reduction type.
X			5. Inter-wheel and inter-axle full locking differentials of manufacturer's recommended brand. Switches shall have indicator lights.
X			6. Front and rear springs shall meet manufacturer's axle requirements.
X			7. Rear axles to have synthetic oil installed.
NOTES/COMMENTS:			

E. STEERING

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Manufacturer's recommended power steering.
X			2. Tilt steering wheel required.
NOTES/COMMENTS:			



F. BRAKES

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Service brakes shall be six wheel, full air Disc, ADB ( Air Disc Brakes)
X			2. Two pads per wheel
X			3. Dust shields are required on all axles.
X			4. Anti-lock brake system (ABS) to have sensors on all wheels required.
X			5. A spring loaded parking brake system designed to automatically apply parking brakes to all four rear wheels when pressure in main air reservoir drops below safe pressure with warning signal is required.
X			6. Brake chambers shall be forward facing from axles
X			7. Bendix AD-IP dryer or OEM equivalent required, which may be dealer installed in not available by manufacturer. Spin on filter required. OEM brand air dryer must be approved by Nebraska Department of Transportation prior to bid opening Indicate dryer bidding <del>WABCO SYSTEM</del>
X			8. Drain valve system for all air tanks must be conveniently operated from side of chassis: system may be dealer installed if not available by manufacturer. SAVER
NOTES/COMMENTS:			

G. ENGINE

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Engine shall be diesel; 9 L. <u>Minimum</u> 300 HP with a minimum 860-LB FOOT torque
X			2. Muffler to be horizontal with vertical stack on RH side with 90 degree elbowed exhaust outlet that is ABOVE top of cab. Elbowed exhaust outlet must be equivalent material and finished as stack and may be dealer installed. Vertical system heat shield required. Horizontal exhaust is acceptable only if required with body and tank. If horizontal is used it must have exhaust suppression to prevent damage to pavement during emission system regeneration
X			3. Temperature controlled fan.
X			4. Engine to be equipped with 110 volt AC engine coolant heater; male receptacle with cover for electrical wire for engine heater is to be sturdily mounted
X			5. Cold starting aid – KBI Dieselmatic cartridge type or equivalent; cartridge to be furnished with warm engine cut off, which may be dealer installed unless equipped with glow plugs or pre-heater, 6. State what is being used. <u>ELECTRIC GRID INTAKE WARMER</u>
X			7. Front crankshaft provisions required for PTO.
X			8. Exterior and interior to engine compartment air inlet system for air cleaner with dual element.

YES	NO	NO & PROVIDE ALTERNATIVE	
X			9. Minimum 18-inch Integral front frame extension on truck will be required, front only bumper and fenders to be furnished.
X			10. Hood shall be tilt-forward hood/fenders with:
X			11. Service access panels required.
X			12. Engine shall be equipped with any OEM available extension tube to allow engine oil and automatic transmission fluid to be conveniently checked and filled at service access panel.
X			13. Butterfly type of hood for convenient access to engine is acceptable if tilt-forward hood/fenders with service access panel(s) are not available by manufacturer.
X			14. Stationary grill is required.
X			15. All shall be manufacturer's standard or optional equipment.
NOTES/COMMENTS:			

H. FILTERS

YES	NO	NO & PROVIDE ALTERNATIVE	
	X		1. Dual element air cleaner if available by manufacturer,
X			2. Full flow, throw away type oil filter.
NOTES/COMMENTS:			

I. COOLING

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Manufacturer's heaviest duty cooling capacity radiator.
	X		2. Coolant filter if required by manufacturer. If required: state make and model <u>NOT REQUIRED</u> .
X			3. Trucks shall have manufacturer's recommended long life antifreeze protection to no less than 34 degrees below zero Fahrenheit.
X			4. Radiator and cooling system must be compatible with front PTO.
NOTES/COMMENTS:			

J. FUEL TANK

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Fuel tank to be left side mounted and minimum 100 gallon capacity.
X			2. Two 50 gallon tanks acceptable if single 100 gallon tank interferes with distributor mounting
X			3. Fuel tank shall be Aluminum or Stainless Steel. Stainless steel preferred. State what will be provided: <u>ALUMINUM</u>
X			4. Suction line from tank to pump to be OEM plastic or stratoflex. Stratoflex is preferred.
X			5. Fuel/water separator with heater required. Davco 384 preferred. Please state what is provided. <u>DETROIT</u>
X			6. Shall be compatible with bio-diesel fuel.
X			7. Minimum 14 inches ground clearance required under fuel tank and supports.
NOTES/COMMENTS:			

K. TIRES & WHEELS

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Steel belted radials of tubeless type.
X			2. Eight, <u>minimum</u> 11R22.5-16 ply rating on rear.
X			3. Fronts and spare shall be minimum 12R22.5-16ply rating.
X			4. Tires shall be Goodyear, <u>Michelin</u> , Bridgestone, Firestone, Continental or General and shall carry said company name.
X			5. Eight 22.5 inch by <u>minimum</u> 8.25 inch; ventilated, 10 stud, hub-piloted, steel disc type with 11-1/4 inch diameter gbolt circle; identical including color, interchangeable; rear wheels and tires must be spaced to permit the use of tire chains.
X			6. Three 22.5 by <u>minimum</u> 8.25 inch wheels (front and spare)
NOTES/COMMENTS:			

L. CAB

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Fully enclosed, safety type cab with locks on doors.



YES	NO	NO & PROVIDE ALTERNATIVE	
		X	2. National 2000 series air seat with air lumbar support on both driver and passenger sides, both with cloth covering and able to adjust forward and backwards on gliders.
X			3. Seats must be able to provide 6.5 inches of travel.
X			4. Seat mounted arm rests outboard to be furnished on both driver and passenger seats. If outboard arm rest is available by molded arm rest on door of truck, that is acceptable.
X			5. Power electric windows on both side windows.
X			6. Tinted safety glass in cab.
X			7. Step or running board on each side of cab.
X			8. Exterior and interior cab grab handles on both sides to facilitate entry into the truck shall be provided.
X			9. Minimum 98 inches from grade to top of cab is required.
X			10. Cab to have minimum 72 inches of shoulder room per specification sheet.
X			11. Cab to have minimum 56 inches floor to headliner height.
NOTES/COMMENTS: 2. SEE ATTACHMENT			

**M. COLOR**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Truck will be highway safety yellow, vendor to provide color chip for approval.
X			2. Paint will be base coat/clear coat acrylic, activator-hardened acrylic or polyurethane type.
NOTES/COMMENTS:			

**N. MIRRORS**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Rear vision, rectangular Western Type
X			2. Mirrors to be stainless steel or OEM equivalent heated type with tinted or non-glare glass.
X			3. Size 16 inch by 7 inch or approximately 110 square inches.
X			4. Mounted on right and left doors of cab, extendable to maximum legal width.

YES	NO	NO & PROVIDE ALTERNATIVE	
X			5. convex mirror or equivalent size to be mounted below the 16" x 7" mirror on each side. Convex mirror not to overlap main mirror. Mirror on passenger side to be power adjustable.
NOTES/COMMENTS:			

**O. LIGHTS**

YES	NO	NO & PROVIDE ALTERNATIVE	
		X	1. LED high beam headlights with low beam; parking; dome; tail and stop lights; front and rear directional turn signals.
NOTES/COMMENTS: 1. HALOGEN HEADLIGHTS			

**P. CONTROLS & INSTRUMENTS**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Key locking ignition switch; head, parking and dome light switch; headlight beam control; electronic engine/PTO controls; speedometer.
X			2. Oil pressure gauge; fuel gauge; engine temperature gauge; ammeter or voltmeter.
X			3. Vacuum restriction gauge for air cleaner on or near dash, must be mounted to be easily read from driver's seat, which may be dealer-installed if not available from manufacturer. If unit has vacuum restriction light on dash, the filter minder can remain under hood.
X			4. High beam indicator light; flashing turn-indicator lights; traffic hazard switch.
X			5. Dash-mounted, tachometer and hour meter required. Hour meter may be dealer installed.
X			6. Air pressure gauge.
X			7. Dash-mounted in cab control for locking differential engagement/disengagement; red or amber warning light when engaged is required, which may be dealer installed.
X			8. Self-canceling, turn signal switch on steering column.
X			9. Three sets of keys per truck.
NOTES/COMMENTS:			

**Q. WINDSHIELD WIPERS**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Heaviest duty dual electrical wipers available with intermittent capability.
X			2. Dual electric windshield washers.
X			3. Washer nozzles to be integrated into wiper arms.
<b>NOTES/COMMENTS:</b>			

**R. ELECTRICAL**

YES	NO	NO & PROVIDE ALTERNATIVE	
		X	1. Manufacturer's recommended batteries for diesel engine quoted, but minimum 2600 cold cranking amperes.
X			2. Alternator shall have 150 amperes <u>minimum</u> .
		X	3. Positive and negative jump start studs required. Must be easily accessible at side of chassis. Use of frame or frame hardware is not acceptable for negative stud.
<b>NOTES/COMMENTS:</b> 1. 2000 CCA FOR APPLICATION AND TO HAVE BATTERIES MOUNTED UNDER CAB 3. FRAME IS UTILIZED / ONLY OPTION			

**S. GENERAL**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Dual electric horns; dual padded sun visors; dual arm rests on door or seat mounted.
X			2. Manufacturer's standard air horn(s) shall be provided. Power outlet on dash.
X			3. Truck manufacturer's recommended outside air intake heater with defroster for entire windshield; power outlet.
X			4. AM/FM radio; seat belts for occupant capacity, lap/shoulder type with retractors for outer seats.
X			5. Manufacturer's standard manually controlled air conditioning required.
X			6. Electronic back-up alarm is required which must meet OSHA standards, may be dealer installed.
<b>NOTES/COMMENTS:</b>			



T. RADIO FREQUENCY SHIELDING – Caution !!

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. The chassis and/or installed components and equipment shall be compatible with use of NDOT mobile and/or two-way communication devices. Main communication reaid operates in low band range of 47 HMz to 48 MHz, but all frequencies apply including low band, high band, UHF, and VHF.
X			2. The chassis and/or installed components and equipment shall be manufactured to meet all current SAE and/or ISO Standards applicable and/or relevant to Electromagnetic Compatibility.
X			3. NDOT will conduct testing of radio/two-way when installed in chassis. NDOT will notify vendor if normal operational parameters are not met due to degradation of signals caused by electromagnetic emissions from chassis or installed components and equipment. Vendor shall be required to work with NDOT normal radio operation parameters. Vendor shall have 30 days to resolve FRI issue.
X			4. Vendor and/or manufacturer will be responsible for any and all cost to replace and/or modify any parts found to cause radio frequency interference. If NDOT and vendor cannot resolve source of RFI the unit will be sent to an independent accredited lab for testing to ensure SAE and/or ISO standard compliance. Testing shall be done to SAE and/or ISO Standards which were current at date of bid. Should the chassis and/or installed components and equipment fail testing at the accredited lab, the vendor shall be responsible for all cost incurred for testing.
X			5. If after testing by NDOT and /or accredited lab, the vendor is unable or unwilling to incur the cost and correct the RFI issue to the satisfaction of NDOT, <b>ALL ORDERS AND CORRESPONDING CONTRACT WILL BE CANCELED.</b>
NOTES/COMMENTS:			

U. WARRANTY

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. The manufacturer's regular warranty certificate will be required with each unit delivered and the warranty shall apply, in all cases, with the following exceptions:
X			2. Because of the installation or attachment of auxiliary or supplementary equipment by the Department or sub-vendor, the effective date of warranty will be after field assignment. As each unit is assigned for service the Department will maintain a record of serial number and assignment date.
X			3. Manufacturer's written warranty including engine, transmission and differential must accompany delivered units.
X			4. Full, manufacturer's warranty coverage will be required for the stated warranty period, beginning at assignment date, in addition to the time between delivery and field assignment.
X			5. Prior to the awarding of, or entering into any agreement or contract, it shall be the responsibility of the manufacturer and/or the successful bidder to warrant to the State of Nebraska, in writing, that it has factory authorized dealers in the State of Nebraska who will provide warranty/service and repair work without undue delay.
X			6. It is understood that the bidder accepts the above warranty requirements when offering a quotation.

YES	NO	NO & PROVIDE ALTERNATIVE	
X			7. Provide any information on towing available and what is covered.
NOTES/COMMENTS:			

V. SERVICE

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Manufacturer's standard warranty, completed pre-delivery inspection certificate, manufacturer's Statement of Origin and line sheet will be required with each unit delivered.
X			2. Service policy to be honored by all of the manufacturer's authorized dealer's in the State of Nebraska.
X			3. Dealer's decals, stickers or other signs shall not be affixed to units; manufacturer's nameplates, stampings and other similar signs are acceptable.
X			4. Chassis shall be delivered, after servicing and ready to drive, with not less than ten gallons of fuel in tank.
NOTES/COMMENTS:			

W. MANUALS

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Owner's/operator's manual must accompany each unit delivered.
		X	2. Chassis technical repair manual.
		X	3. Engine shop repair manual, if not in chassis repair manual.
		X	4. Chassis parts manual.
		X	5. Engine parts manual, if not in chassis parts manual.
		X	6. All manuals must be furnished prior to payment and delivered to Fleet Management Equipment Data Coordinator.
		X	7. Failure to deliver all manuals that are ordered may result in non-payment of ten percent of purchase order total until all manuals are delivered.
NOTES/COMMENTS: 2-7. ALL MANUALS ARE NOW ELECTRONIC AND YOU ARE USING THE SYSTEM			

**ASPHALT DISTRIBUTOR**

**X. MOUNTING**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Unit shall be mounted on proposed chassis with 138 inch Cab to Axle as per manufacturer's recommendations.
X			2. Distributors will be so constructed as to permit the center of gravity of distributor when loaded to be as far forward of the rear axle as possible.
<b>NOTES/COMMENTS:</b>			

**Y. TANK**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. The elliptically-shaped tank shall have a capacity of 3,000 gallons plus 5 percent for expansion.
X			2. Minimum 10 gauge tank construction required.
X			3. Tank shall have adequate surge plates and all seams shall be welded.
X			4. Fiberglass or rock wool insulation of 2-inch thickness shall be covered with minimum 0.040 inch aluminum side shell and jacket heads.
X			5. Spacers between jacket and shell to be non-conducting material or insulated steel bands and shall be placed to prevent shifting or moving of the insulation.
X			6. Two (2) minimum 8 to 6 inch diameter U type, heating flues with stainless steel, or galvanized steel exhaust stacks to be provided with two burners.
X			7. A sump or inverted intake, or pump located below the tank, will be provided to prevent draining air into pump before tanks are empty.
X			8. Minimum 20-inch manhole with internal overflow.
X			9. A suitable drain in bottom of tank for cleaning tank to be furnished.
X			10. An external type, Fahrenheit, 4-inch dial thermometer gauge with long sensor near bottom of tank that is conveniently readable from side of tank to be furnished.
X			11. Tank to be provided with adequate overflow.
X			12. A certified tank capacity chart and measuring stick to be furnished.
X			13. A suitable catwalk or landing and a ladder to be provided for access to manhole.
		X	14. Tank must meet all applicable Federal Cargo Tank Regulations 49 CFR 173.247 and including DOT-406, HM-183, HM-198A with consideration for hot asphalt products a. State ASME Tank Approval Number _____
<b>NOTES/COMMENTS:</b> 14. ROSCO/LEEBOY MEETS ALL FEDERAL CARGO STANDARDS FOR NON PRESSURIZED HOT ASPHALT PRODUCTS, TANK ASTM A596. THE ASME TANK APPROVAL NUMBER IS ONLY REQUIRED FOR PRESSURIZED TANKS. ROSCO/LEEBOY IS A NON PRESSURIZED TANK.			



**Z. PUMP AND DRIVE**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Pump shall have a rated capacity of 400 or more gallons per minute.
X			2. Pump to preferably have heated asphalt pump from truck cooling system.
X			3. Quick detachable coupling for pump intake required
X			4. Controls in cab for overriding asphalt pump without interfering the preset pump application rate preferred; switch-type flow control in cab is acceptable.
NOTES/COMMENTS:			

**AA. SPECIAL GAUGES**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Radar sensing device to measure speed in feet per minute and distance, with in cab gauge or read-out required.
X			2. Low level of tank indicator light required in cab or gauge that is readable in drivers outside rear view mirror.
X			3. Electronic computer control and readout in cab of FPM, GPM, total gallons sprayed and feet traveled for asphalt distributor.
NOTES/COMMENTS:			

**BB. LOADING HOSE**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. A 15-foot minimum length of 3 inch flexible suction hose and quick detachable couplings at each end.
X			2. Inlet strainer at distributor connection.
NOTES/COMMENTS:			

**CC. SPRAY BAR**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Spray bar shall be of the full circulating type having a mechanism providing a no-drip feature.
X			2. Spray bar shall be capable of being hydraulically shifted 15 inches each direction from center and hydraulically lifted at least 6 inches for travel.

YES	NO	NO & PROVIDE ALTERNATIVE	
X			3. The length of bar shall be 14 feet.
X			4. Above includes an approximate eight foot section.
X			5. With three foot sections on each side of center section, consisting of one or two foot end sections plus manufacturer's regular length(s) of other sections.
X			6. Outside extensions must fold within an 8-foot width.
X			7. Outside extensions to be power folded.
X			8. Bar shall have shut-off valves or switches for each nozzle and linkage mechanism shall be such that distribution is controlled in increments of one foot is available for the entire bar.
X			9. Joints on center section shall be "break away" or safety hinge type. Breakaway wings on the ends of the center section is also acceptable.
X			10. Nozzle spacing to be at 4-inch intervals.
X			11. Spray bar to be air-controlled in cab from chassis air system for on/off functions.
X			12. Distributor must have capability of returning all material in spray bar, hand sprayer and lines by suction.
X			13. Flushing system for cleaning pump and circulating components or suck back is required.
NOTES/COMMENTS:			

**DD. HAND SPRAY HOSE AND GUN**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. A 25 foot minimum length of one inch, rubber covered, hand spray hose with reel, complete hand spray gun, with valve and spray nozzles, having a minimum length of 5 feet shall be furnished.
NOTES/COMMENTS:			

**EE. HEATING SYSTEM**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Diesel burners for asphalt distributor producing minimum 560,000 BTU's per hour for each burner.
X			2. High pressure type, push button ignition required.
X			3. Digital temperature readout.
X			4. Thermostatically controlled shut down.
X			5. Automatic outfire protection to be provided.

YES	NO	NO & PROVIDE ALTERNATIVE	
X			6. Please state where burner fuel comes from (i.e.) truck chassis or separate fuel tank. <u>SEPERATE FUEL TANK</u>
NOTES/COMMENTS:			

**FF. ACCESSORIES**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Fenders, conveniently and safely located grab handle for platform access required.
X			2. Lights and reflectors to meet Federal regulations to be furnished.
X			3. Hand hold rods, tool kit, tool box and rack for spray bars to be furnished. Wet storage box for spray bar storage is also acceptable.
X			4. Diesel wash-down kit including tank, electric pump, 15-foot hose with wand, valve & nozzle and hose rack or hooks required.
X			5. Mudflaps must be mounted as per Nebraska Statutes.
X			6. Dealer nameplates and signs shall not face to rear of unit.
X			7. Skirting near bottom of tank shall <u>not</u> be furnished.
NOTES/COMMENTS: 4. HOSE WILL BE ON A RETRACTABLE STYLE HOSE REEL			

**GG. MANUALS**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Two operator's manuals and two application charts are to be supplied with and must accompany each unit delivered.
X			2. Parts book required for each unit delivered.
X			3. Shop repair manual for each unit delivered.
X			4. All manuals must be furnished prior to payment and delivered to Fleet management Equipment data Coordinator.
X			5. Failure to deliver all manuals that are ordered may result in non-payment of ten percent of purchase order total until all manuals are delivered.
NOTES/COMMENTS: 2-3. PARTS BOOK AND REPAIR MANUAL ARE A SINGLE COMBINED MANUAL			

**HH. COLOR**



YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Equipment to be manufacturer's standard color.
NOTES/COMMENTS:			

**II. ANNUAL USAGE, ESTIMATED**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Annual usage figures provided are estimates and are not to be construed as either a minimum or maximum purchase quantity. The orders shall be for the actual quantities of each item ordered by or for any agency during the life of the contract. Vendor shall not impose minimum order requirements.
X			2. Two (2) per contract year
NOTES/COMMENTS:			

**JJ. USAGE REPORT**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. The vendor shall, upon request, provide a quarterly usage report of this contract by state agencies and political subdivisions. Information will include agency name, item, and dollar amount. Information may be requested at any time by the SPB, as determined by the State.
NOTES/COMMENTS:			

**KK. DELIVERY ARO**

YES	NO	NO & PROVIDE ALTERNATIVE	
		X	1. Deliveries desired prior to (180) days after receipt of order; quoted deliveries beyond (180 ) days are an award consideration.  At the time of delivery, a designated State employee will sign the "invoice/packing slip." This signature will only indicate that the order has been received and that the items actually delivered agree with the delivery invoice. This signature does not indicate all items were received in good condition and/or that there is not possible hidden damage.
NOTES/COMMENTS: OPEN AT THIS TIME, WE WILL DISCUSS			

**LL. DELIVERY LOCATIONS / INSTRUCTIONS (VENDOR AGREES THAT THEY CAN MEET THE DELIVERY LOCATIONS/INSTRUCTIONS)**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			To: NDOT 5001 South 14 <sup>th</sup> Street. Lincoln Ne, 68512
NOTES/COMMENTS:			

**MM. ORDERS**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Orders will be placed either by, phone, e-mail or Internet (if available and not to the exclusion of the other methods).
X			2. All orders must reference a purchase order number and the purchase order number must be referenced on the packing slip, and invoice. Invoices are to be sent to the "Invoice to" address on the purchase order.
NOTES/COMMENTS:			

**NN. QUALITY**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. Product quality must meet specifications and be consistent for the term of the contract. All materials must be of first quality, under standard production by the manufacturer and be of standard design, complete as regularly advertised and marketed and be of proven performance.
X			2. A guarantee of satisfactory performance by the vendor and meeting delivery dates are considered to be an integral part of the purchase contract resulting from this bid invitation.
X			3. Products are to be fully guaranteed and may be returned for full credit or replacement (at the State's option) for any reason during the initial warranty period with no additional charges for shipping or restocking.
NOTES/COMMENTS:			

**OO. AUTHORIZED DEALER & WARRANTY**

YES	NO	NO & PROVIDE ALTERNATIVE	
X			1. To the extent required by the manufacturer, the Vendor shall be an authorized dealer. Vendor may be required to substantiate that he/she is an authorized dealer. Proof, if required, must be submitted to SPB within three (3) business days of the request and prior to the award of any contract.
X			2. The terms of the original manufacturer's standard warranty shall apply to all equipment acquired from this solicitation for the entire warranty period.

YES	NO	NO & PROVIDE ALTERNATIVE	
NOTES/COMMENTS:			

PP. WARRANTY

YES	NO	NO & PROVIDE ALTERNATIVE	
X			<p>1. The Vendor warrants for a period of one (1) year from the date of Acceptance that: (a) the Products perform according to all specific claims that the Vendor made in its response to the solicitation, (b) the Product is suitable for the ordinary purposes for which such Product is used, (c) the Product is suitable for any special purposes identified in the solicitation or for which the State has relied on the Vendor's skill or judgment, (d) the Product is designed and manufactured in a commercially reasonable manner, and (e) the Product is free of defects. Upon breach of the warranty, the Vendor will repair or replace (at no charge to the State) the Product whose nonconformance is discovered and made known to the Vendor. If the repaired and/or replaced Product proves to be inadequate, or fails of its essential purpose, the Vendor will refund the full amount of any payments that have been made. The rights and remedies of the parties under this warranty are in addition to any other rights and remedies of the parties provided by law or equity, including, without limitation actual damages, and, as applicable and awarded under the law, to a prevailing party, reasonable attorneys' fees and costs.</p>
NOTES/COMMENTS:			



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 NEBRASKA DOT  
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 5001 S 14TH ST  
 LINCOLN, NE 68509  
 Phone: 402-479-4319

Prepared by:  
 Bill Collier  
 TRUCK CENTER COMPANIES  
 5701 ARBOR RD.  
 LINCOLN, NE 68517  
 Phone: 402-464-2444

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

Data Code	Description	Weight Front	Weight Rear	Retail Price
<b>Price Level</b>				
PRL-26D	SD PRL-26D (EFF:7/26/21)			STD
<b>Data Version</b>				
DRL-042	SPECPRO21 DATA RELEASE VER 042			N/C
<b>Vehicle Configuration</b>				
001-176	108SD CONVENTIONAL CHASSIS	6,829	3,748	\$124,670.00
004-223	2023 MODEL YEAR SPECIFIED			STD
002-004	SET BACK AXLE - TRUCK			STD
019-002	STRAIGHT TRUCK PROVISION			N/C
003-001	LH PRIMARY STEERING LOCATION			STD
<b>General Service</b>				
AA1-002	TRUCK CONFIGURATION			STD
AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)			N/C
A85-011	CONSTRUCTION SERVICE			STD
A84-1GM	GOVERNMENT BUSINESS SEGMENT			N/C
AA4-002	LIQUID BULK COMMODITY			N/C
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			STD
AB1-008	MAXIMUM 8% EXPECTED GRADE			STD
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			STD
995-1A0	FREIGHTLINER SD VOCATIONAL WARRANTY			STD
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 14600.0 lbs			
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 40000.0 lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 54600.0 lbs			
<b>Truck Service</b>				
AA3-003	TANK BODY			N/C
AF3-999	CUSTOM MFR'S/BODY TYPE IDENTIFICATION			N/C
	LEEBOY ASPHALT DISTRIBUTOR			
<b>Engine</b>				



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Data Code	Description	Weight Front	Weight Rear	Retail Price
101-3BN	CUM L9 300 HP @ 2200 RPM; 2200 GOV RPM, 860 LB-FT @ 1200 RPM			\$1,517.00
<b>Electronic Parameters</b>				
79A-075	75 MPH ROAD SPEED LIMIT			N/C
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			N/C
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED			N/C
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH			N/C
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND			N/C
80G-002	PTO MINIMUM RPM - 700			N/C
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH			N/C
<b>Engine Equipment</b>				
99C-021	2010 EPA/CARB/GHG21 CONFIGURATION			STD
99D-010	NO 2008 CARB EMISSION CERTIFICATION			N/C
13E-001	STANDARD OIL PAN			STD
105-015	OIL FILL AND DIPSTICK LOCATED FOR ENHANCED SERVICEABILITY			\$83.00
014-1C5	SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	10		\$578.00
124-1D7	DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE			STD
292-235	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES			STD
290-017	BATTERY BOX FRAME MOUNTED			STD
281-001	STANDARD BATTERY JUMPERS			STD
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB			\$18.00
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			STD
289-001	NON-POLISHED BATTERY BOX COVER			STD
87P-001	CAB AUXILIARY POWER CABLE	5		\$62.00
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2		\$88.00
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			STD
152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
128-076	CUMMINS ENGINE INTEGRAL BRAKE WITH VARIABLE GEOMETRY TURBO ON/OFF	20		STD
016-1C2	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE	30	25	\$816.00
28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH			N/C
239-038	11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT			N/C
237-1CR	RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP			N/C
23U-002	13 GALLON DIESEL EXHAUST FLUID TANK			STD
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			STD
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			STD
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			STD
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP			STD
242-011	ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD(S)			N/C
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE			N/C
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			STD
110-003	CUMMINS SPIN ON FUEL FILTER			STD
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER			STD
266-104	1115 SQUARE INCH ALUMINUM RADIATOR			STD
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT			STD
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			STD
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			STD
270-016	RADIATOR DRAIN VALVE			STD
360-013	1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	20		\$487.00
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4		\$92.00
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			N/C
132-004	ELECTRIC GRID AIR INTAKE WARMER			STD





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Data Code	Description	Weight Front	Weight Rear	Retail Price
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH			STD
<b>Transmission</b>				
342-584	ALLISON 3500 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION			(\$75.00)
<b>Transmission Equipment</b>				
352-016	FULLER AT-1202 A3 AUXILIARY TRANSMISSION			\$11,699.00
343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV			STD
84B-002	ALLISON VOCATIONAL RATING FOR CONCRETE MIXER APPLICATIONS ONLY AVAILABLE WITH 3000 PRODUCT FAMILIES			STD
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			STD
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			STD
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			STD
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			STD
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			STD
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE			STD
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED			STD
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES			STD
84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS			STD
353-067	VEHICLE INTERFACE WIRING CONNECTOR WITH PDM AND BLUNT CUTS, AT BACK OF CAB			\$689.00
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED			\$23.00
362-823	CUSTOMER INSTALLED CHELSEA 280 SERIES PTO			N/C



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Data Code	Description	Weight Front	Weight Rear	Retail Price
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON			N/C
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			STD
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			N/C
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013			STD
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK			STD
346-013	TRANSMISSION OIL CHECK AND FILL WITH CROSSOVER TO CLEAR LH PTO AND DIRECT MOUNT PUMP			\$61.00
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			STD

#### Front Axle and Equipment

400-1A8	DETROIT DA-F-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE	10		\$980.00
402-075	BENDIX ADB22X AIR DISC FRONT BRAKES	10		\$928.00
403-002	NON-ASBESTOS FRONT BRAKE LINING			STD
419-004	FRONT DISC BRAKE ROTORS			N/C
427-001	FRONT BRAKE DUST SHIELDS	5		\$354.00
409-006	FRONT OIL SEALS			STD
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL			STD
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES			STD
405-030	FRONT AIR DISC BRAKE INTERNAL ADJUSTERS			N/C
406-001	STANDARD KING PIN BUSHINGS			STD
536-012	TRW TAS-85 POWER STEERING	40		N/C
539-003	POWER STEERING PUMP			STD
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR			STD
40T-003	SYNTHETIC 40/50W FRONT AXLE LUBE			\$26.00

#### Front Suspension

620-003	14,600# FLAT LEAF FRONT SUSPENSION	250		\$438.00
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION			N/C
410-001	FRONT SHOCK ABSORBERS			\$121.00

#### Rear Axle and Equipment

420-1K3	MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE		2,500	\$10,486.00
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Data Code	Description	Weight Front	Weight Rear	Retail Price
421-529	5.29 REAR AXLE RATIO			N/C
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			STD
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	40	40	\$466.00
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES			N/C
382-073	MXL 17T MERITOR EXTENDED LUBE INTERTRANSMISSION DRIVELINE WITH HALF ROUND YOKES			\$696.00
452-006	DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		30	\$1,317.00
878-022	(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AXLE VALVE AND (1) REAR-REAR AXLE VALVE			\$24.00
87A-001	BLINKING LAMP WITH EACH INTERAXLE LOCK SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF			N/C
87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH			N/C
423-075	BENDIX ADB22X AIR DISC REAR BRAKES		-50	\$2,172.00
433-002	NON-ASBESTOS REAR BRAKE LINING			STD
434-003	STANDARD BRAKE CHAMBER LOCATION			N/C
451-005	REAR DISC BRAKE ROTORS			N/C
425-002	REAR BRAKE DUST SHIELDS		10	\$180.00
440-006	REAR OIL SEALS			STD
426-094	AIR DISC LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS		20	N/C
428-030	REAR AIR DISC BRAKE INTERNAL ADJUSTERS			N/C
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE			STD
42T-001	STANDARD REAR AXLE BREATHER(S)			STD
<b>Rear Suspension</b>				
622-006	40,000# 4-SPRING FLAT LEAF REAR SUSPENSION		460	\$2,027.00
621-002	SPRING SUSPENSION - 1.00" AXLE SPACER			\$158.00
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			STD
624-011	52 INCH AXLE SPACING			N/C
623-001	HEAVY DUTY FORE/AFT CONTROL RODS			N/C
<b>Brake System</b>				





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Data Code	Description	Weight Front	Weight Rear	Retail Price
490-100	WABCO 4S/4M ABS			N/C
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			STD
904-001	FIBER BRAID PARKING BRAKE HOSE			STD
412-001	STANDARD BRAKE SYSTEM VALVES			STD
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM			STD
413-002	STD U.S. FRONT BRAKE VALVE			STD
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			STD
480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER			STD
479-015	AIR DRYER FRAME MOUNTED			STD
460-001	STEEL AIR BRAKE RESERVOIRS			STD
607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD			\$218.00
477-036	PULL CABLES ON ALL AIR RESERVOIRS WITH KEY RING TYPE ATTACHMENT			\$3.00

### Trailer Connections

335-004	UPGRADED CHASSIS MULTIPLEXING UNIT			N/C
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### Wheelbase & Frame

545-517	5175MM (204 INCH) WHEELBASE			N/C
546-100	11/32X3-1/2X10-3/16 INCH STEEL FRAME (8.73MMX258.8MM/0.344X10.19 INCH) 120KSI	310	-80	\$1,156.00
552-007	2450MM (96 INCH) REAR FRAME OVERHANG			N/C
55W-009	FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-40	170	N/C
549-002	24 INCH INTEGRAL FRONT FRAME EXTENSION	115	-20	\$4.00
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 138.19 in			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 135.19 in			
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 365.4 in			
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 34.54 in			N/C
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 49.99 in			N/C
553-001	SQUARE END OF FRAME			STD
550-001	FRONT CLOSING CROSSMEMBER			STD
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER			STD
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)			STD
572-001	STANDARD REARMOST CROSSMEMBER			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
565-001	STANDARD SUSPENSION CROSSMEMBER			STD
<b>Chassis Equipment</b>				
556-1E5	14 INCH PAINTED STEEL BUMPER			STD
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE			STD
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS			STD
<b>Fuel Tanks</b>				
204-156	100 GALLON/378 LITER ALUMINUM FUEL TANK - LH	20		\$288.00
218-006	25 INCH DIAMETER FUEL TANK(S)			STD
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			STD
212-007	FUEL TANK(S) FORWARD			STD
664-001	PLAIN STEP FINISH			STD
205-001	FUEL TANK CAP(S)			STD
122-1J1	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR, HAND PRIMER AND 12 VOLT PREHEATER"	-5		\$51.00
216-020	EQUIFLO INBOARD FUEL SYSTEM			STD
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			STD
<b>Tires</b>				
093-994	MICHELIN XZE 12R22.5 16 PLY RADIAL FRONT TIRES	50		\$300.00
094-1UY	MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES		120	(\$80.00)
510-994	MICHELIN XZE 12R22.5 16 PLY RADIAL SPARE TIRE		119	\$868.00
<b>Hubs</b>				
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS			STD
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS			STD
<b>Wheels</b>				
502-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 6.18 INSET 2-HAND HD STEEL DISC FRONT WHEELS	26		STD
505-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS		104	STD
511-428	ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC SPARE WHEEL		83	\$195.00



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Data Code	Description	Weight Front	Weight Rear	Retail Price
496-011	FRONT WHEEL MOUNTING NUTS			STD
497-011	REAR WHEEL MOUNTING NUTS			STD
<b>Cab Exterior</b>				
829-1A5	108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB			STD
650-008	AIR CAB MOUNTING			STD
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE			STD
667-004	FRONT FENDERS SET-BACK AXLE			STD
678-067	SAFETY YELLOW LH AND RH INTERIOR GRAB HANDLES AND LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT			\$80.00
646-041	STATIONARY BLACK GRILLE			STD
65X-004	BLACK HOOD MOUNTED AIR INTAKE GRILLE			STD
644-006	FIBERGLASS HOOD WITH ACCESS HATCHES	10		\$682.00
727-1AH	SINGLE 14 INCH ROUND POLISHED AIR HORN ROOF MOUNTED			STD
726-002	DUAL ELECTRIC HORNS			\$14.00
728-001	SINGLE HORN SHIELD			STD
575-001	REAR LICENSE PLATE MOUNT END OF FRAME			STD
312-068	HALOGEN COMPOSITE HEADLAMPS WITH BLACK BEZELS			STD
302-001	(5) AMBER MARKER LIGHTS			N/C
294-001	INTEGRAL STOP/TAIL/BACKUP LIGHTS			STD
300-015	STANDARD FRONT TURN SIGNAL LAMPS			STD
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE			\$286.00
797-001	DOOR MOUNTED MIRRORS			STD
796-001	102 INCH EQUIPMENT WIDTH			STD
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			N/C
729-001	STANDARD SIDE/REAR REFLECTORS			STD
768-043	63X14 INCH TINTED REAR WINDOW			STD
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS			STD
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4		\$218.00
663-013	1-PIECE SOLAR GREEN GLASS WINDSHIELD			STD
659-007	8 LITER (2 GAL) WINDSHIELD WASHER RESERVOIR, CAB MOUNTED, WITHOUT FLUID LEVEL INDICATOR			STD





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Data Code	Description	Weight Front	Weight Rear	Retail Price
<b>Cab Interior</b>				
707-1AK	OPAL GRAY VINYL INTERIOR			N/C
706-013	MOLDED PLASTIC DOOR PANEL			STD
708-013	MOLDED PLASTIC DOOR PANEL			STD
772-006	BLACK MATS WITH SINGLE INSULATION			STD
785-004	DASH MOUNTED ASH TRAY(S) WITHOUT LIGHTER			N/C
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING			N/C
694-010	IN DASH STORAGE BIN			N/C
742-007	(2) CUP HOLDERS LH AND RH DASH			STD
680-006	GRAY/CHARCOAL FLAT DASH			N/C
860-004	SMART SWITCH EXPANSION MODULE			\$196.00
700-002	HEATER, DEFROSTER AND AIR CONDITIONER			STD
701-001	STANDARD HVAC DUCTING			STD
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			STD
170-015	STANDARD HEATER PLUMBING			STD
130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR			STD
702-002	BINARY CONTROL, R-134A			STD
739-033	STANDARD INSULATION			STD
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES			STD
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM			STD
324-011	DOMED DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF			N/C
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			STD
78G-003	KEY QUANTITY OF 3			\$9.00
655-005	LH AND RH ELECTRIC DOOR LOCKS			\$36.00
284-023	(1) 12 VOLT POWER SUPPLY IN DASH			N/C
756-339	PREMIUM ISRINGHAUSEN HIGH BACK AIR SUSPENSION DRIVERS SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	70		\$414.00
760-339	PREMIUM ISRINGHAUSEN HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	60	20	\$451.00
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
758-022	BLACK MORDURA CLOTH DRIVER SEAT COVER			\$25.00
761-023	BLACK MORDURA CLOTH PASSENGER SEAT COVER			\$22.00
763-101	BLACK SEAT BELTS			STD
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10		\$478.00
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL			N/C
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			STD
<b>Instruments &amp; Controls</b>				
732-004	GRAY DRIVER INSTRUMENT PANEL			N/C
734-004	GRAY CENTER INSTRUMENT PANEL			N/C
870-001	BLACK GAUGE BEZELS			N/C
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM			STD
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			N/C
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS			\$25.00
721-001	97 DB BACKUP ALARM		3	\$47.00
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL			N/C
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			STD
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED			N/C
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			STD
844-001	2 INCH ELECTRIC FUEL GAUGE			STD
148-003	PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE			N/C
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			STD
864-005	TRANSMISSION OIL TEMPERATURE INDICATOR LIGHT			(\$28.00)
830-006	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY AND HOBBS PTO OPERATION HOUR METER	2		\$52.00
372-035	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP	10		\$69.00
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			STD
679-001	OVERHEAD INSTRUMENT PANEL			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
746-136	AM/FM/WB WORLD TUNER RADIO WITH AUXILIARY INPUT, J1939	10		\$290.00
747-001	DASH MOUNTED RADIO			N/C
750-002	(2) RADIO SPEAKERS IN CAB			N/C
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF			\$23.00
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			STD
817-001	STANDARD VEHICLE SPEED SENSOR			STD
812-001	ELECTRONIC 3000 RPM TACHOMETER			STD
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP			STD
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			STD
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY			STD
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH			N/C
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR			STD
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE			N/C
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS			STD
<b>Design</b>				
065-000	PAINT: ONE SOLID COLOR			STD
<b>Color</b>				
980-5E0	CAB COLOR A: L0135EY YELLOW ELITE EY			N/C
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			STD
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			STD
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			STD
96F-972	POWDER WHITE (N0006EA) SPARE WHEEL/RIM (PKWHT21, TKWHT21, W, TW)			N/C
964-020	STANDARD BLACK BUMPER PAINT			STD
963-003	STANDARD E COAT/UNDERCOATING			STD
<b>Certification / Compliance</b>				
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			STD





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Data Code	Description	Weight Front	Weight Rear	Retail Price
<b>Raw Performance Data</b>				
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 135.19 in			

**Sales Programs**  
 NO SALES PROGRAMS HAVE BEEN SELECTED

**T O T A L V E H I C L E S U M M A R Y**

<b>Weight Summary</b>			
	Weight Front	Weight Rear	Total Weight
Factory Weight <sup>+</sup>	7927 lbs	7302 lbs	15229 lbs
Total Weight <sup>+</sup>	7927 lbs	7302 lbs	15229 lbs

**I T E M S N O T I N C L U D E D I N A D J U S T E D L I S T P R I C E**

<b>Other Factory Charges</b>		
PMV-021	GHG21 ENHANCEMENT PRICE	\$510.00
RAG-020	CUMMINS TARIFF CHARGE - \$205	\$205.00
RFY-022	FRONT TIRE SURCHARGE	\$50.00
RFU-022	REAR TIRE SURCHARGE	\$200.00
RFX-022	SPARE TIRE SURCHARGE	\$25.00
RFZ-023	MY23 PRODUCTION COST SURCHARGE	\$2,900.00
P73-2FT	STANDARD DESTINATION CHARGE	\$2,700.00

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

(\*\*) Prices shown do not include taxes, fees, etc... "Net Equipment Selling Price" is located on the Quotation Details Proposal Report.

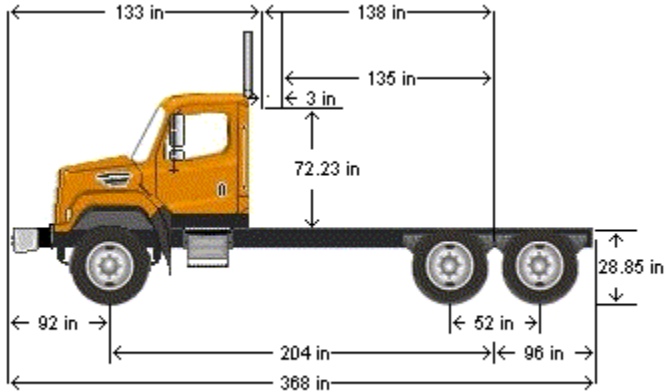
(\*\*\*) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



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



**VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS**

Wheelbase (545) .....	5175MM (204 INCH) WHEELBASE
Rear Frame Overhang (552) .....	2450MM (96 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) .....	108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682) .....	NO SLEEPER BOX/SLEEPERCAB
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)	133.3
Bumper to Centerline of Front Axle (BA)	91.7
Front Axle to Back of Cab (AC)	41.6
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	138.2
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	135.2
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	234.7
Cab Height (CH)	72.2
Wheelbase (WB)	203.7
Frame Overhang (OH)	96.5
Overall Frame Length	365.4
Overall Length (OAL)	368.0
Rear Axle Spacing	52.0
Unladen Frame Height at Centerline of Rear Axle	28.9

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



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## GVWR

### VEHICLE SPECIFICATIONS SUMMARY - GVWR

Cab Size (829)..... 108 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
Expected Front Axle(s) Load (lbs)..... 14600.0  
Expected Pusher Axle(s) Load (lbs)..... 0.0  
Expected Rear Axle(s) Load (lbs)..... 40000.0  
Expected Tag Axle(s) Load (lbs)..... 0.0  
Expected GVW (lbs) ..... 54600  
Expected GCW (lbs) ..... 0.0  
Front Axle (400)..... DETROIT DA-F-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE  
Front Suspension (620) ..... 14,600# FLAT LEAF FRONT SUSPENSION  
Front Hubs (418) ..... CONMET PRESET PLUS PREMIUM IRON FRONT HUBS  
Front Disc Wheels (502) ..... ACCURIDE 28828 22.5X8.25 10-HUB PILOT 6.18 INSET 2-HAND HD STEEL DISC FRONT WHEELS  
Front Tires (093)..... MICHELIN XZE 12R22.5 16 PLY RADIAL FRONT TIRES  
Front Brakes (402)..... BENDIX ADB22X AIR DISC FRONT BRAKES  
Steering Gear (536)..... TRW TAS-85 POWER STEERING  
Rear Axle (420) ..... MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE  
Rear Suspension (622)..... 40,000# 4-SPRING FLAT LEAF REAR SUSPENSION  
Rear Hubs (450)..... CONMET PRESET PLUS PREMIUM IRON REAR HUBS  
Rear Disc Wheels (505)..... ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS  
Rear Tires (094) ..... MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES  
Rear Brakes (423) ..... BENDIX ADB22X AIR DISC REAR BRAKES  
Pusher / Tag Axle (443)..... NO PUSHER OR TAG AXLE  
Pusher / Tag Suspension (626) ..... NO PUSHER OR TAG SUSPENSION  
Pusher / Tag Hubs (449)..... NO PUSHER OR TAG HUBS  
Pusher/Tag Disc Wheels (509) ..... NO PUSHER/TAG DISC WHEELS  
Pusher / Tag Tires (095)..... NO PUSHER/TAG TIRES  
Pusher / Tag Brakes (456)..... NO PUSHER/TAG BRAKES





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**TABLE SUMMARY - GVWR**

	Front	Rear 1	Rear 2
<b>Axle Component Weight Ratings</b>			
Axles	14700	20000	20000
Suspension	14600	20000	20000
Hubs	14700	26000	26000
Brakes	14700	23000	23000
Wheels	16000	32000	32000
Tires	14780	24020	24020
Power Steering	18000	N/A	N/A
GAWR (per axle)	14600	20000	20000
GAWR (per axle system)	14600		40000
Expected Load (per axle system)	14600		40000
GVWR due to Frame	90000		
GVWR due to Transmission	80000		
<b>Vehicle GVWR Summary</b>			
<b>Calculated GVWR</b>	54600		
<b>Expected GVWR</b>	54600		
All weights displayed in pounds			

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



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**F R A M E R B M**

**VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM**

Wheelbase (545) .....5175MM (204 INCH) WHEELBASE  
 Frame Rails (546)..... 11/32X3-1/2X10-3/16 INCH STEEL FRAME (8.73MMX258.8MM/0.344X10.19 INCH) 120KSI(546)  
     Yield Strength (psi) ..... 120000  
     Section Modulus (per rail) (cu in) ..... 15.069  
     RBM (per rail) (lbf-in) ..... 1808400  
 Inner Frame Reinforcement (547)..... NO INNER FRAME REINFORCEMENT  
 Outer Frame Reinforcement (548)..... NO OUTER FRAME REINFORCEMENT

**TABLE SUMMARY - FRAME RBM**

Item	Description / Value
Wheelbase	5175MM (204 INCH) WHEELBASE
Frame	11/32X3-1/2X10-3/16 INCH STEEL FRAME (8.73MMX258.8MM/0.344X10.19 INCH) 120KSI
Inner Frame Reinforcement	NO INNER FRAME REINFORCEMENT
Outer Frame Reinforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	15.07
Frame RBM - per rail (lbf-in)	1808400

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



Freightliner (FTL)



## Freightliner SD Vocational

<i>Applicable Models:</i>	108SD/114SD
<i>SD Vocational Coverage is only available for vehicles ordered with the following engines:</i>	Cummins B, C, or L
<i>SD Vocational Coverage is not available for vehicles in these vocations:</i>	Logging, Mining, Oil Field
<b>Category Determinants</b>	
Road Surface — most severe in-transit between sites	<30% off-highway rough, maintained concrete/asphalt; maintained gravel/crushed rock; maintained dirt or soft soil (Class C or D roads) <sup>1</sup>
GCVW	92,000 lb/41 730 kg or less
<b>Axes and Their Manufacturer's GVW 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	N/A
5-axle unit	N/A

<sup>1</sup>Class C roads have a natural surface and may be either constructed or established over time by repeated passage of vehicles. The natural surface may be dirt, sand, or rock. A minimal amount of maintenance, if any at all, is limited primarily to spot surface grading to allow vehicle passage within the original road corridor. Class D roads are primitive roads that were not constructed but have been established over time by the passage of motor vehicles. These roads receive no maintenance or grading.

<b>Coverage<sup>2</sup></b>		
Description	Time <sup>3</sup>	Distance <sup>3</sup>
<b>Basic Vehicle</b>	2 Years	Unlimited
<b>Battery</b>	1 Year	100,000 mi/161 000 km
<b>Brightwork</b>	6 Months	Unlimited
<b>Cab Corrosion/Perforation</b>	5 Years	Unlimited
<b>Cab Structure</b>	5 Years	Unlimited
<b>Corrosion</b>	6 Months	Unlimited
<b>Crossmembers</b>	5 Years	Unlimited
<b>Diesel Emission 2010<sup>4</sup></b>	5 Years	100,000 mi/161 000 km
<b>Frame Rails</b>	5 Years	Unlimited
<b>GHG14<sup>5</sup> (Medium Heavy Duty to Heavy Heavy Duty Trucks)</b>	5 Years	100,000 mi/161 000 km
<b>GHG14<sup>5</sup> (Medium Heavy Duty to Heavy Heavy Duty Tractors)</b>	5 Years	100,000 mi/161 000 km
<b>GHG14<sup>5</sup> Tire</b>	2 Years	24,000 mi/38 400 km
<b>Paint</b>	1 Year	100,000 mi/161 000 km
<b>Paint, Chassis</b>	6 Months	Unlimited
<b>Front Axle<sup>6</sup></b>	2 Years	Unlimited
<b>Rear Axle</b>	2 Years	Unlimited
<b>Transfer Case</b>	2 Years	Unlimited
<b>Transmission</b>	2 Years	Unlimited
<b>Detroit Front Axle<sup>6</sup> (File Direct)</b>		
<b>Pre-Model Year 2011<sup>7</sup></b>	2 Years	Unlimited
<b>Post-Model Year 2011<sup>8</sup></b>	3 Years	300,000 mi/483 000 km
<b>Detroit Rear Axle (File Direct)</b>		
<b>Pre-Model Year 2011<sup>7</sup></b>	2 Years	Unlimited

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

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

*This coverage may be superseded without notification.*

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<b>Post-Model Year 2011<sup>8</sup></b>	3 Years	300,000 mi/483 000 km
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<sup>1</sup>Coverage may vary; check vehicle's actual warranty coverage online via OWL's *Coverage Info/Check Coverage* screen.

<sup>3</sup>Time or distance, whichever comes first

<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, check actual warranty online via OWL's *Coverage Info/Check Coverage* screen for coverage listed as "GHG14..."

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

<sup>7</sup>Pre-Model Year 2011 Detroit Axle: Warranty coverage is determined by Gross Combination Weight Rating, road surface, and vocation. Please see [www.ddcsn.com](http://www.ddcsn.com) for specific coverage details.

<sup>8</sup>Heavy Duty – General Service: Warranty coverage is determined by Gross Combination Weight Rating, road surface, and vocation. Please see [www.ddcsn.com](http://www.ddcsn.com) for specific coverage details.

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

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

*This coverage may be superseded without notification.*



# Warranty Statement

## 1.1 New Vehicle Coverage

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

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

## 1.2 New Vehicle Limited Warranty

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

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

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

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

## 1.3 Limitations

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

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

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

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

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

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

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

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

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

## 1.4 Purchaser's Exclusive Remedy

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

## 1.5 Limitation of Liability

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

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

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

## 1.6 Exclusions

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

### AERODYNAMIC WHEEL COVERS

Aerodynamic wheel covers are excluded from coverage under this Warranty.

### AIR SPRINGS

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

### ALIGNMENT OF AXLES/WHEELS/STEERING

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

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

### AXLE BREATHER VENTS

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

### CAB INTERIOR COMPONENTS

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

These components include, but are not limited to:

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

### CHROME SURFACES, ALUMINUM AND STAINLESS STEEL COMPONENTS

The following items ARE covered under this Warranty:

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

The following items are NOT covered under this Warranty:

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

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

### CLUTCH ADJUSTMENT

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

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

### COMPETITION

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

- Racing
- Tractor pulls
- Other motor sports

### CONSUMABLE PARTS

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

These items are:

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

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

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

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

### **CORROSION**

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

### **DAMAGE**

The following are not covered under this Warranty:

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

### **ENGINE**

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

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

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

### **EXHAUST SYSTEM CLAMPS**

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

### **FIFTH WHEELS**

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

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

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

### **MISAPPLICATION OF VEHICLE**

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

### **MISCELLANEOUS EXPENSES**

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

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

### **MODIFICATIONS TO ORIGINAL EQUIPMENT**

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

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



**PAINT**

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

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

**Gloss**

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

**SHIP LOOSE ITEMS AND COMPONENTS**

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

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

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

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

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

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

If vehicle is drop shipped directly to customer:

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

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

**TRANSMISSIONS**

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

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

**ROUTINE MAINTENANCE**

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

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

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

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

**INITIAL OPERATING PERIOD**

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

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

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

See CONSUMABLE PARTS elsewhere in this section.

Exclusions from warranty during the IOP are:

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



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

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

### TEST VEHICLES

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

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

### TIRES AND TIRE BALANCING

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

## 1.7 Transfer of Warranty

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

## 1.8 Change of Owner Address Information

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

## 1.9 Product Improvement

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

## 1.10 Owner's Responsibilities

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

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

# Coverage Descriptions

## Axles

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

### Detroit Axle(s)

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

### Drive Axle(s)

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

### Front Axle(s)

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

### Pusher Axle

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

### Rear Axle(s)

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

### Steer Axle(s)

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

### Tag Axle

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

## Battery

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

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

## Basic Chassis

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

## Basic Vehicle

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

## Brightwork

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

## Cab Corrosion/Perforation

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

## Cab Structure

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

## Corrosion

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

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

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

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

## Cowl Corrosion/Perforation

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

## Cowl Structure

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

## Crossmembers

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

## Driveline

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

## Frame Rails

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

## GHG14\*

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

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

### GHG14 Tire\*

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

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

### Glider

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

### Hybrid Transmission – Eaton

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

### Off Road On-Site Assistance

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

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

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

### Body Paint

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

### Cab Paint

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

### Cowl Paint

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

### Paint, Chassis (Chassis Paint)

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

### Towing/Roadside Assistance

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

### Transfer Case

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

### Transmission

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

### Wheel End Equipment

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



## TOWING & ROADSIDE SERVICE COVERAGE TERMS

### INTRODUCTION

This document describes the coverage provided under the Daimler Trucks North America (“DTNA”) Extended Service Coverage (“ESC”) Plan. ESC coverage levels and applicable time and distance limits vary. See your local dealer for details regarding ESC for your vehicle. (NOTE: ROADSIDE ASSISTANCE SERVICE IS A SEPARATE PRODUCT THAT PROVIDES TELEPHONE BASED CONCIERGE AND SHOULD NOT BE CONFUSED WITH ROADSIDE SERVICE.)

### HOW TO PURCHASE EXTENDED TOWING AND ROADSIDE SERVICE COVERAGE

Extended Service Coverage is not automatic, but must be purchased separately at the time you purchase the vehicle. In some cases, ESC may be purchased after the vehicle is sold. Contact your local dealer for further information. Only DTNA vehicles sold and operated in the U. S. and/or Canada are eligible for Towing and Roadside Service Coverage.

### DTNA’S RESPONSIBILITY UNDER TOWING AND ROADSIDE SERVICE COVERAGE

Extended Towing & Roadside Service Coverage covers a select dollar cap per occurrence for towing or roadside service related to a defect in material and workmanship of a component that prevents the safe and lawful operation of the vehicle.

### COVERAGE TIME PERIOD FOR ESC TOWING AND ROADSIDE SERVICE

The Extended Service Coverage Agreement starts at the vehicle in-service date and extends to the time or distance limits established for the specific vehicle within the purchased ESC contract. Time and distance limits are measured from the in-service date of the product for the first retail purchaser, and starts from zero miles/kilometers on the odometer/ hubometer. In the case of an odometer/hubometer that is broken, the actual mileage/distance on the vehicle is to be determined from accurate and complete service records. Contact your dealer to confirm ESC time and distance limits for your vehicle.

### TRANSFERRING COVERAGE TO A SUBSEQUENT OWNER

Extended Service Coverage is automatically transferred to subsequent owners of the vehicle as long as the vehicle is used in the same vocation, subject to existing time/distance limits. The previous owner should arrange for the transfer of available service records, repair orders, and related documents to the new owner.

### COVERAGE CAPS

Coverage Cap is the maximum amount covered per claim.

\$550 USD available for Freightliner, Western Star, Thomas Built Bus and Freightliner Custom Chassis

\$1200 USD available for Freightliner and Western Star only

\$1800 USD available for Freightliner and Western Star only

### TOWING AND ROADSIDE SERVICE TIME AND DISTANCE PRODUCTS

Time and Distance intervals for this product are available. Please contact your local Freightliner, Western Star Dealer for the full list of products.





## WHAT IS COVERED

### Towing

Travel time: **from** authorized repair facility to the covered vehicle location

Labor: driveline/axle shafts removal and towing hook up only

Travel time: **to** an authorized repair facility

Less than or equal to the applicable coverage cap

Maximum payout per occurrence is based on the selected Extended Towing and Roadside Service coverage cap.

### Roadside

Travel time: **from** authorized repair facility to the covered vehicle location

Labor: Issue Diagnostic only (assessment to tow or minor repair)

Travel time: **to** an authorized repair facility

## WHAT IS NOT COVERED

1. Additional Parts or Labor
2. Any other repair
3. Note: Labor and parts for the repair itself are not covered under the Extended Towing and Roadside Service Coverage. These parts and repairs would require additional coverage or would be customer paid.
4. Subsequent roadside claims or towing claims from the same warrantable failure event are not covered.
5. Trailer towing or storage

## FILING CLAIMS

Filing claims: If towing is associated with a DTNA warrantable failure, towing charges must be on the same claim. Reimbursement of .5 hour to reinstall drivelines if towing company has removed but not reinstalled.

Includes engine/transmission failures. If supplier declines towing coverage and failure is not fault of customer, list supplier claim in claim comments.

## PROPER VEHICLE TOWING

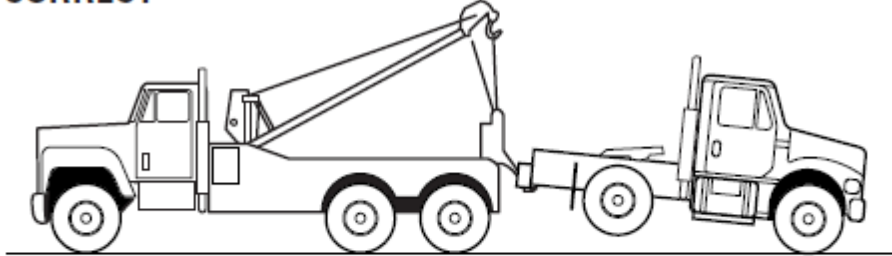
### Vehicle Towing

When towing the vehicle, the output shaft of the transmission must not be allowed to spin or turn. If the vehicle is towed with the drive wheels still in contact with the road surface, the vehicle axle shafts or driveline must be removed or disconnected.



**WARNING:** Serious internal transmission damage can result from improper vehicle towing. Damage to vehicle caused by the towing event is **not covered** by this extended coverage.

### CORRECT



### INCORRECT



# Maximizer 2B Asphalt Distributor

**Rosco**  
A Leebay Company



Applying a tack coat requires a sophisticated piece of equipment like the Maximizer 2B to ensure a uniform spray. The folding spray bar allows application without extensions and easily adjust to provide even coverage of triple overlap fan spray pattern. Trusting in the proven reliability and solid performance that can only be found in a Viking asphalt pump coupled with our proprietary spraying algorithms, the Maximizer 2B yields long-lasting, top notch performance for all application types.

## Performance Features:

- 12' (3.7 m) Fully Circulating Folding Spraybar
- Application Without Extensions
- Automatic In-Cab Controls
- Internal Spraybar Valves
- 400 Gallons Per Minute (1,514 lpm) Viking Asphalt Pump
- Enviro-Flush Clean Out System
- Accurate Application Regardless of Spraybar Width or Speed
- 12 Presets for Application Rate
- GPS speed and distance monitoring





# Max 2B Asphalt Distributor Specifications



Tank Capacity	- 1,050 gallons (3,974 l) to 4,250 gallons (16,088 l) * Gallons listed are maximum tank capacities. Recommended tank capacities may be limited by 1.) Thermal expansion of materials. 2.) Density of materials. 3.) Truck/axle load ratings. For more detail, please contact your local Rosco Sales Representative or Dealer.	Operator's In-Cab Controls	- Plus+1 CAN Bus control and onboard diagnostics - 7" (177 mm) 800 x 480, high-res color display - Automatic application rate control - Settings for flow, speed calibration, spraybar width, spraybar on/off control by section - Up to 12 application rate preset combinations - Readouts include FPM, GPM, total feet sprayed, total gallons sprayed, total sq. yards sprayed, flow and speed calibration, application rate, tank temperature, hour meter, spraybar width
Tank	- Meets all applicable Federal DOT regulations - 10 gauge (3.4 mm) steel shell - 7 gauge (4.5 mm) steel reinforced, flanged heads - Seams are electrically welded	Additional Standard Equipment	- Hand spray wand with a 25' (7.6 m) rubber hose - Front and rear dial contents gauge - 4" (102 mm) dial, internal pencil thermometers - Sample valve - Back up alarm - Ladder and platform assembly
Insulation	- 2" (51 mm) rock wool with spacers to prevent compression - Protected by an aluminium jacket	Optional Equipment	- Installation for a customer supplied truck chassis - PTO transmission (required if not using front live power) - LPG burner, includes 52 gallon (197 l) LP tank - LPG burners with electronic ignition, 100% outfire protection and heat control - Diesel burners with outfire protection and heat limit control - Heated asphalt pump - Emulsion tank hand railing, electric actuated - Washdown system with pump and hose, self-winding hose reel - Spraybar extensions, 1' lengths (max 4 each) - Spraybar extensions, 2' lengths (max 2 each) - Loading hose, 3" x 15' (76 mm x 4.572 m) flexible steel with quick couplers - Loading hose, 3" x 15' (76 mm x 4.572 m) rubber with quick couplers - LED working lights, qty 4 - Additional toolboxes, depends on framereail availability - Electric overnight heat, 240V single phase - Radar horn in lieu of GPS - Other options available, visit LeeBoy.com
Heat System	- Two diesel fired burners with electric ignition - 560,000 BTU per burner, per hour capacity		
Asphalt Pump	- Viking, positive displacement pump - 400 gallon per minute (1,514 lpm)		
Clean Out	- Enviro-flush allows circulation through asphalt pump, valves, distributing lines and spraybar - Material returned to tank for later use or disposal - 25 gallons (95 l) capacity		
Spraybar	- Exclusive two-way spraybar breakaway system - Safety relieving feature provides protection if an obstruction is hit in either forward or reverse - Brass, slotted nozzles and valves are non-clogging - Quick-disconnect allows operator to change spray widths in 4" (102 mm) increments - 12' (3.65 m) full circulating bar - Two 4' (1.21 m) center sections - Two 2' (.610 m) hydraulic folding spraybar wings - Nozzles: spaced 4" (102 mm) centers on spraybar - Spraybar shifts 18" (.457 m) each way		



ST Engineering LeeBoy, Inc. ■ 500 Lincoln County Parkway Extension ■ Lincolnton, NC 28092 ■ 704.966.3300  
[www.LeeBoy.com](http://www.LeeBoy.com)



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ST Engineering LeeBoy, Inc.  
500 Lincoln County Parkway Ext  
Lincolnton, NC 28092  
[www.LeeBoy.com](http://www.LeeBoy.com)

## TWO YEAR LIMITED WARRANTY

### A. LIMITED WARRANTY

If a manufacturing defect in factory supplied materials or factory workmanship is found and the authorized LeeBoy dealer ("Dealer") is notified during the warranty period, LeeBoy will be responsible for repairing or replacing any part or component of the unit or part that fails to conform to the warranty during the warranty period.

### B. TERMS AND CONDITIONS

1. The warranty applies for a period of two years (for unlimited hours of usage on the unit during the two years), beginning on the date that the Dealer from which the unit is purchased submits the warranty registration form to LeeBoy (typically on the date of purchase).
2. The warranty is not transferable and applies only to the original purchaser of a new unit from a Dealer.
3. Warranty work must be performed at an authorized Dealer location.
4. LeeBoy has the right to repair any component or part before replacing it with a new one.
5. Replacement parts furnished by LeeBoy are covered for the remainder of the warranty period applicable to the unit or component in which such parts are installed.
6. All new replacement parts purchased from a Dealer will carry a six (6) month warranty.

### C. WARRANTY EXCLUSIONS AND LIMITATIONS

1. LeeBoy has no obligation under this warranty for any defects or failures caused by:
  - a. misuse, misapplication, negligence, accident or failure to maintain or use in accordance with the most current operating instructions;
  - b. unauthorized alterations or modifications;
  - c. any replacement parts or attachments not manufactured by or expressly approved by LeeBoy;

- d. failure to conduct normal maintenance and operating service, including without limitation, providing lubricants, coolant, fuel, tune-ups, inspections or adjustments; or
  - e. unreasonable delay, as determined by LeeBoy, in making the applicable units or parts available upon notification of a service notice ordered by LeeBoy.
2. LeeBoy is not responsible for any of the following:
    - a. defects or failures with respect to any engine or truck chassis;
    - b. defects or failures covered by a warranty provided by a third-party, including without limitation warranties with respect to engines or truck chassis;
    - c. costs related to travel time, mileage or overtime;
    - d. costs related to transporting the unit to and from the place at which warranty work is performed;
    - e. airfreight charges related to transporting repair parts to the place at which warranty work is performed;
    - f. used units or used parts of any kind;
    - g. repairs due to normal wear and tear, or brought about by abuse or lack of maintenance of the equipment, except for premature failures;
    - h. attachments not manufactured or installed by LeeBoy; or
    - i. miscellaneous charges.

### D. EXCLUSION OF OTHER WARRANTIES/LIMITATION OF LIABILITY

OTHER THAN THE EXPRESS WARRANTY PROVIDED IN SECTION A. ABOVE, LEEBOY GIVES NO EXPRESS, STATUTORY, OR IMPLIED WARRANTY OR GUARANTEE AND HEREBY DISCLAIMS ALL SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, SUITABILITY, DURABILITY, CONDITION, QUALITY, OR FREEDOM FROM CLAIMS OF ANY PERSON BY WAY OF INTERFERENCE, INFRINGEMENT, OR THE LIKE.

IN NO EVENT OR UNDER ANY THEORY OF RECOVERY, WHETHER AS A RESULT OF BREACH OF CONTRACT OR WARRANTY, ALLEGED NEGLIGENCE, OR LIABILITY WITHOUT FAULT, SHALL LEEBOY BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE SALE, USE, OR LOSS OF USE OF ANY PRODUCT, INCLUDING WITHOUT LIMITATION LOST PROFITS OR REVENUES, COST OF CAPITAL, COST OF SUBSTITUTED EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME COSTS, LABOR COSTS, OR DIMINUTION OF VALUE.



## THE FIVE CONTRIBUTING FACTORS THAT MAXIMIZE RCO.



Freightliner Trucks works closely with truck equipment manufacturers (TEMs) across a variety of segments to create vehicles with numerous segment-specific options and clear back-of-cab packaging that TEMs can efficiently upfit, reducing time and costs.



Our robust support footprint features a 24/7 toll-free hotline and hundreds of service locations with factory-certified technicians—including over 400 dealership locations and more than 260 Elite Support Certified dealers. With Detroit™ Connect Virtual Technician™ diagnostic services\*, you know within minutes when vehicles experience engine fault events, the severity, and when, where, and how to best fix the issue.

\*Only available on trucks equipped with Detroit™ engines.



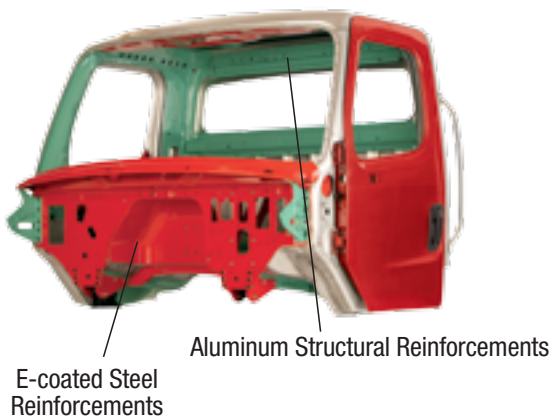
We understand the importance of operator visibility, entry, and egress. Comfort in the truck during a long work day can help reduce fatigue and improve safety. Freightliner's vocational trucks offer numerous available safety features and ergonomically designed, well-insulated cabs to help keep drivers safe and productive.



Freightliner trucks are designed to maximize reliability and longevity. We rigorously test our products to ensure each model meets or exceeds customer business needs. Quality construction and durable materials help Freightliner trucks stay on the job and drive business results.



Productivity starts with efficiency and dependability that maximize uptime. A truck has to be in-service and getting the job done. We're focused on designing and testing medium and severe duty trucks for real-world conditions.



- Corrugated floor, roof, and back-of-cab panels for added strength
- Meets Swedish A-pillar test standards and SAE J2422 roof strength requirements
- Available in day cab, extended cab or 4-door crew cab configurations
- 2500 sq. in. one-piece windshield for outstanding job site visibility
- Wide door openings with low step-in height for safe entry and exit
- Steel firewall for solid mounting of dash panel and driver controls



Components, systems, and entire vehicles are subjected to an array of virtual and physical tests to ensure our trucks deliver the expected function, performance, and reliability.

## WHERE TOUGHNESS MEETS EFFICIENCY.

We've applied sophisticated engineering to the structural elements of our work trucks. First, our cabs are light-weight, yet extremely tough. Corrosion-resistant aluminum is reinforced with e-coated steel and assembled to precise manufacturing tolerances with Henrob rivets and welded construction. This process produces a durable and safe cab that meets stringent A-pillar impact, rollover, and back wall impact tests. Plus, the vocational chassis includes a robust backbone with a complete offering of single- and double-channel frame rails. The result is a tensile strength of up to 120,000 psi and an RBM ratio up to 3.7 million inch-pounds per rail. This means the 108SD can handle whatever job is thrown at it, day after day, year after year.

## SPECS AND OPTIONS

### STANDARD FEATURES

- 108" BBC steel-reinforced aluminum day cab
- Set-back front axle position @ 42"
- Stationary radiator-mounted mold-in color front grille
- Tilt hood for easy engine access
- Front grille, headlight bezels, engine air intake grille, bumper, and primary mirrors trimmed in black
- Halogen composite headlights
- Air rear cab mounts
- Ergonomic wing dash
- 63" x 14" rear window
- Up to 50-degree wheel cut, depending on wheel equipment
- Cummins L9 380 hp, 1250 lb-ft torque engine
- Eaton® Fuller® 6-speed manual transmission
- Front axle rated at 12,000 lb.
- Rear axle rated at 21,000 lb.
- 50-gallon cylindrical fuel tank

### OPTIONAL FEATURES

- Bright-accented front grille with chromed grille surround, headlight bezels, and engine air intake grille
- Engine air intake pre-cleaner
- Integral front frame extensions in 6" and 24" lengths for front bumper stabilizer install
- Large selection of wheelbases, frames and frame reinforcements to meet severe duty needs
- Engine and transmission power take-offs
- Two or three batteries mounted under cab to optimize back-of-cab packaging
- Range of cylindrical and rectangular aluminum fuel tanks
- Steer axles from 10,000 to 20,000 lb.
- Single drive axles from 17,500 to 38,000 lb. rating
- Tandem drive axles from 40,000 to 46,000 lb. rating
- A wide range of Eaton® and Allison® transmissions
- Freightliner AirLiner® and TufTrac® rear suspensions
- Hendrickson® walking beam and air ride rear suspensions
- Expanded dash instrumentation, switches, and controls to meet almost any vocational application
- Detroit™ or Cummins engines with a broad range of power ratings
- Frame-mounted front tow eyes
- Engine compartment lighting



Competitive financing available through Daimler Truck Financial. For the Freightliner Trucks dealer nearest you, call 1-800-FTL-HELP. www.freightliner.com. 15k, 1117. FTL/MC-B-1512. Specifications are subject to change without notice. Freightliner Trucks is registered to ISO 9001:2008 and ISO 14001:2004. Copyright © 2017. Daimler Trucks North America LLC. All rights reserved. Freightliner Trucks is a division of Daimler Trucks North America LLC, a Daimler company.



### AVAILABLE CAB CONFIGURATIONS



## HEAVYWEIGHT POWER. EFFICIENT PACKAGE.

The Freightliner Trucks 108SD combines powerful, fuel-efficient engines, multiple power take-off (PTO) options, a chassis engineered for ease of upfit, and a weight-optimized design. This severe duty truck takes toughness onto tight job sites and down narrow streets. It's powered by a reliable Detroit or Cummins engine, offering up to 380 horsepower and 1250 lb-ft of torque. And it provides a wheel cut of up to 50 degrees. The 108SD is extremely versatile, as well. Front engine, rear engine, and transmission PTO options allow flexibility for body hydraulic power needs. It offers integral front frame

extensions in either 6" or 24" lengths. This gives a solid mounting point for hydraulic pumps, winches, hose reels, front stabilizers, and snow plows. The 108SD also incorporates our proprietary SmartPlex® Electrical System, which provides unmatched flexibility when configuring trucks for specific applications. Detroit-powered 108SDs are available with the Detroit™ Connect suite of connected vehicle services to maximize uptime.\* Put simply, Freightliner has packed a lot of valuable features into an efficient package.

\*Check with your dealer for availability.



## ENGINES

- Detroit™ DD8™\*  
260-350 hp / 660-1050 lb-ft torque
- Cummins® B6.7\*  
200-325 hp / 520-750 lb-ft torque
- Cummins L9\*  
260-380 hp / 660-1250 lb-ft torque

## TRANSMISSIONS

- Eaton Fuller Manual
- Allison Automatic

## AXLES (UP TO)

- Steer\* 20k
- AWD Steer 23k
- Single Drive 38k
- Tandem 46k



Detroit™ DD8™



Cummins® L9 Engine



Cummins® B6.7 Engine



- Tilt hood with radiator-mounted stationary grille for easy engine access
- Superior wheel cut for outstanding maneuverability
- 6" and 24" front frame extensions available
- Halogen composite headlights for easy replacement
- Hood-mounted splash guard
- Optional tow hooks bolted to frame
- Easy headlight bulb access
- Day cab, extended cab, or crew cab available
- Corrosion-resistant Severe Duty aluminum cab reinforced with e-coated steel
- 2500 sq. in. windshield for greater worksite visibility
- Strong fiberglass hood
- Optional bright trim package
- Radiator-mounted grille
- LED turn signals
- Optional front frame extensions
- Front drive axle up to 23k capacity
- 3.5" fender extensions
- Up to 50-degree wheel cut, depending on wheel equipment
- 3 under-cab-mounted batteries available
- Cylindrical or rectangular fuel tanks available

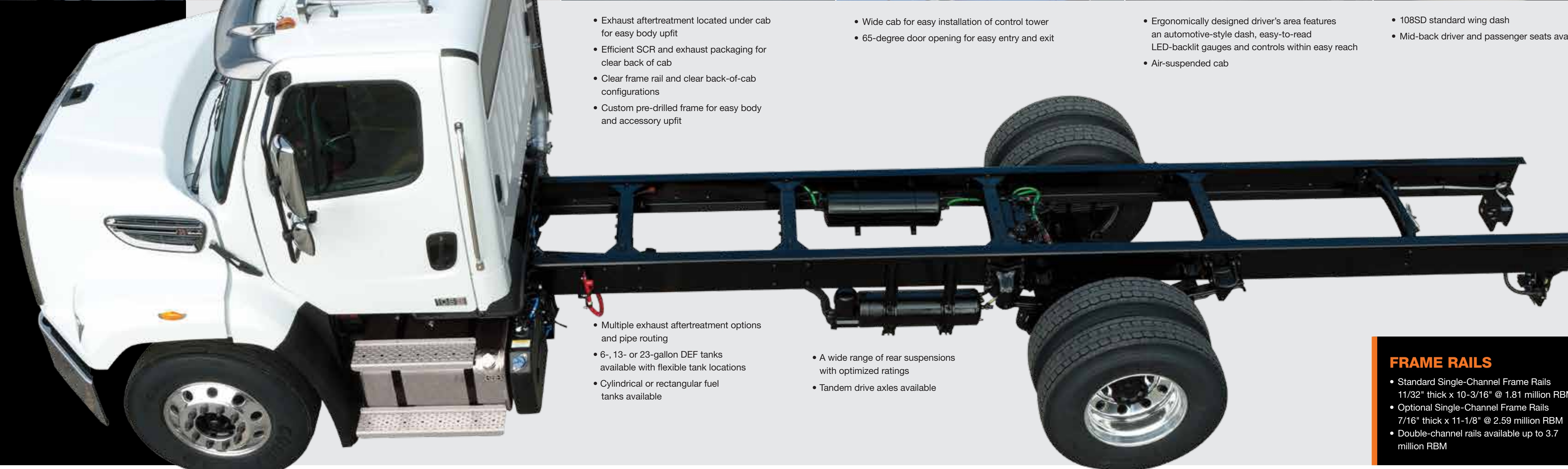


- Exhaust aftertreatment located under cab for easy body upfit
- Efficient SCR and exhaust packaging for clear back of cab
- Clear frame rail and clear back-of-cab configurations
- Custom pre-drilled frame for easy body and accessory upfit

- Wide cab for easy installation of control tower
- 65-degree door opening for easy entry and exit

- Ergonomically designed driver's area features an automotive-style dash, easy-to-read LED-backlit gauges and controls within easy reach
- Air-suspended cab

- 108SD standard wing dash
- Mid-back driver and passenger seats available



- Multiple exhaust aftertreatment options and pipe routing
- 6-, 13- or 23-gallon DEF tanks available with flexible tank locations
- Cylindrical or rectangular fuel tanks available

- A wide range of rear suspensions with optimized ratings
- Tandem drive axles available

## FRAME RAILS

- Standard Single-Channel Frame Rails 11/32" thick x 10-3/16" @ 1.81 million RBM
- Optional Single-Channel Frame Rails 7/16" thick x 11-1/8" @ 2.59 million RBM
- Double-channel rails available up to 3.7 million RBM

\*Higher ratings are available for approved application.





# New Seats Changeover M2, 108SD, 114SD



Driver Experience

**WORK SMART**<sup>SM</sup>

## What is it?

- New Isringhausen (ISRI) seats released replacing National seats due to supplier discontinuation.
- New Seats Inc. bench seats planned to release Feb. 2022, replacing National bench seats due to supplier discontinuation.
- New seat covers are available in gray vinyl (std), black cordura or mordura cloths, and black Laredo leather. Grey cordura and mordura cloths will not be available in new seats.
- **Backlog updates and multiple changeover dates planned as ISRI and Seats Inc. capacity increases and National production ends (see matrix).**

## Why is it important?

New ISRI seats have an updated ergonomic design based on new seat standards similar to Cascadia seats released in 2012 and provide improved design, comfort, and greater adjustability. Customer feedback on Cascadia ISRI seats has been overwhelmingly positive.

## New ISRI Crossover

Discontinued National Codes	Description	New ISRI Codes	Description	Santiago C/O:	Mt. Holly C/O:
756-1J3 760-1J3 762-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER/PASSENGER/REAR PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	756-338 760-338 762-338	BASIC ISRI HIGH BACK AIR SUSPENSION DRIVERS/PASSENGER/REAR PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	7/12/21	*Planned Feb. 2022
756-1D9 760-1D9 762-1D9	PREMIUM HIGH BACK AIR SUSPENSION DRIVER/PASSENGER/REAR PASSENGER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD & REAR CUSHION TILT, ADJ SHOCK ABSORBER	756-339 760-339 762-339	PREMIUM ISRI HIGH BACK AIR SUSPENSION DRIVERS/PASSENGER/REAR PASSENGER SEAT WITH 2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT AND ADJUSTABLE SHOCK	7/12/21	*Planned Feb. 2022
756-1E1 760-1E1	ELITE HIGH BACK AIR SUSPENSION DRIVER/PASSENGER SEAT WITH HEAT, 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK	756-340 760-340	ELITE ISRI HIGH BACK AIR SUSPENSION DRIVERS/PASSENGER SEAT W/2 AIR LUMBAR, INTEGRATED CUSHION EXTENSION, TILT, ADJUSTABLE SHOCK, HEAT	7/12/21	*Planned Feb. 2022

\*Updated communications when dates confirmed



- **Updated ergonomic design based on new seat standards (similar to Cascadia and 49X)**
- **Greater horizontal adjustment of up to 230 mm forward/aft**
- **Greater recline adjustment of -16° to +36° from vertical**

## New Seat Covers

758-036 761-036 755-036	VINYL WITH VINYL INSERT DRIVER/PASSENGER/REAR PASSENGER SEAT (GRAY)
758-014 761-014 755-014	BLACK CORDURA PLUS CLOTH DRIVER/PASSENGER/REAR PASSENGER SEAT COVER
758-022 761-022 755-014	BLACK MORDURA CLOTH DRIVER/PASSENGER/REAR PASSENGER SEAT COVER
758-121 758-121 755-121	BLACK LAREDO LEATHER DRIVER/PASSENGER/REAR PASSENGER SEAT COVER

June, 2021 For further information on the product offering please contact your CAE coordinator.

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FAB287





# New Seats Changeover M2, 108SD, 114SD



**WORK SMART<sup>SM</sup>**

## New ISRI Seat Crossover

Discontinued National Codes	Description	New ISRI Codes	Description	Santiago C/O:	Mt. Holly C/O:
Non-Suspension	756-1J1 760-1J1	756-336 760-336	BASIC ISRI HIGH BACK NON SUSPENSION DRIVERS/PASSENGER SEAT W/FORE & AFT ADJUSTMENT	<i>*Planned Oct. 2021</i>	<i>*Planned Oct. 2021</i>
	760-1DC	760-335	BASIC ISRI HIGH BACK NON SUSPENSION PASSENGER SEAT	<i>*Planned Oct. 2021</i>	<i>*Planned Oct. 2021</i>
	760-1J2	760-337	BASIC ISRI HIGH BACK NON SUSPENSION TOOL BOX PASSENGER SEAT	<i>*Planned Oct. 2021</i>	<i>*Planned Oct. 2021</i>

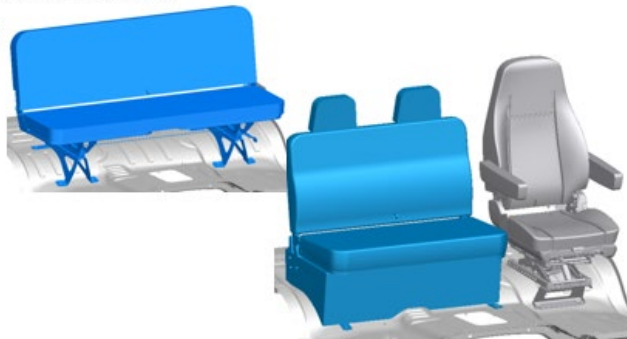
## New Seats Inc. Crossover

Bench	756-033	FULL WIDTH BENCH SEAT	756-341	FULL WIDTH FRONT BENCH SEAT, SEATS INC	<i>*Planned Feb. 2022</i>	<i>*Planned Feb. 2022</i>
	756-155	FULL WIDTH BENCH SEAT WITH FOLDING BACK	756-342	FULL WIDTH FRONT BENCH SEAT WITH FOLDING BACK, SEATS INC.	<i>*Planned Feb. 2022</i>	<i>*Planned Feb. 2022</i>
	760-235	2 MAN TOOL BOX MID BACK NON SUSPENSION PASSENGER SEAT	760-343	2 MAN TOOL BOX MID BACK NON SUSPENSION PASSENGER SEAT, SEATS INC.	<i>*Planned Feb. 2022</i>	<i>*Planned Feb. 2022</i>
	760-1C0	2 MAN TOOL BOX MB NON SUSP PASSENGER SEAT WITH HDRSTS	760-344	2 MAN TOOL BOX MID BACK NON SUSPENSION PASSENGER SEAT W/HEADRESTS, SEATS INC.	<i>*Planned Feb. 2022</i>	<i>*Planned Feb. 2022</i>

### Non-Suspension



### Bench Seats



*\*Updated communications when dates confirmed*

Freightliner Action Bulletin