



# **The Corporation of the Municipality of Callander**

**Request for Proposal**

## **Supply and Deliver One (1) New Mobile Water Apparatus**

Tender Closes Friday, **January 4, 2019 at 3:00 p.m.**  
at 280 Main Street, North, Callander

**RFP 2019-01**

## **THE CORPORATION OF THE MUNICIPALITY OF CALLANDER**

### **REQUEST FOR PROPOSAL No. 2019-01**

### **Supply and Deliver One (1) New Mobile Water Apparatus For Callander Fire and Emergency Services**

Registration forms and Proposal may be obtained at the  
Municipal Office during business hours or at [www.mycallander.ca](http://www.mycallander.ca) and  
**Submitted in a sealed envelope to:**

#### **Procurement**

The Corporation of the Municipality of Callander  
280 Main Street North,  
Callander, Ontario P0H 1H0  
**by 3:00 PM local time Friday January 4, 2019**

#### **For more information please contact:**

Louise Rainville-Beauchesne, Treasurer  
Municipality of Callander  
Phone: (705) 752-1410 x223  
Email: [lrainville@callander.ca](mailto:lrainville@callander.ca)

## **INVITATION**

Bidders are invited to submit bids for the supply and delivery of one (1) new fleet replacement vehicle, for Callander Fire and Emergency Services, per the attached specifications.

## **INSTRUCTIONS TO BIDDERS**

Proposals shall be received by the following method:

1. By hand or courier delivery: The PROPOSAL is to be enclosed and sealed in an envelope clearly marked "PROPOSAL No. 2019-01", addressed to the Municipality of Callander, 280 Main St. N., Callander, ON P0H 1H0.

It is the sole responsibility of the bidder to submit their Proposal prior to the closing time of 3:00 pm (15:00 hrs), local time, January 4, 2019. Proposals received after the noted due time will not be considered. The computer clock on the Treasurer's computer is the official time piece for the receipt of all Proposals whether by hand delivery or courier.

Proposals may be withdrawn only by written notice provided such notice is received at the Treasurer's Office prior to the posted closing date and time. The Proposal is irrevocable and open for acceptance for a period of thirty (30) calendar days after the posted closing date for receipt of Proposals.

The Municipality of Callander reserves the right to cancel this Request for Proposal at anytime for any reason whatsoever until such time as a formal written Letter of Award is made. No bidder shall have any claim for any compensation of any kind whatsoever as a result of participating in the Proposal and by submitting a Proposal the bidder shall be deemed to have agreed that it has no claim.

Consideration and bid awards will be made, in no particular order, on the best value criteria consisting of a combination of specifications of vehicle offered, price, fuel mileage, maintenance cost, warranty, and availability. The lowest priced or any Proposal may not necessarily be accepted.

Please submit the enclosed Proposal Forms and completed Specification Sheets.

## **TRANSFER OF TITLE/OWNERSHIP**

1. Clear title to the vehicle, free of all charges, liens, and encumbrances, other than those placed by the Municipality of Callander shall pass to the Municipality of Callander when the vehicle is received and inspected by the Fire Chief, located at Callander Fire & Emergency Services Fire Station 1, 250 Main St. N., Callander, ON.
2. Until such time as title of the vehicle is accepted by the Municipality of Callander, the Bidder shall be responsible for insurance claims related to the vehicle and the Municipality of Callander shall not be considered to have breached any contract if

there is a fire, damage, or other cause which entitles an insurance company to seize or take possession of the vehicle or part thereof.

### **COMMENCEMENT OF WARRANTY PERIOD**

1. The warranty period shall commence at the time the Municipality of Callander accepts clear title of the vehicle unless otherwise specified.
2. The warranty should be made out to the Municipality of Callander, 280 Main St. N., Callander, ON P0H 1H0.

### **PRE-DELIVERY AND INSPECTION**

1. Prior to delivery, the vehicle shall be completely inspected by a representative to Callander Fire & Emergency Services. The bidder is responsible to ensure the vehicle is thoroughly tested, inspected, and that all deviations are corrected prior to delivery. The vehicle shall contain a pre-delivery check sheet showing what operations have been performed on the vehicle by the selling bidder. The vehicle is to be clean, and all stickers are to be removed from glass prior to delivery with the exception of any sticker required by law.
2. The Municipality of Callander will inspect the vehicle, upon delivery, for workmanship, appearance, proper functioning of the vehicle, equipment and systems, and conformance to all requirements described in the specifications. In the event deficiencies are detected, the vehicle will be rejected, and it shall be the bidder's responsibility to pick-up the vehicle, make the necessary corrections, and re-deliver the vehicle for a reinspection and acceptance.
3. The bidder shall be responsible for securing any and all inspections required by law, including Ontario Provincial Inspection stickers. Any fee charged for these inspections shall be the sole responsibility of the bidder.

### **DELIVERY REQUIREMENTS**

1. The bidder will deliver the vehicle free and clear of all liens and encumbrances in the manner and to the destination stipulated. In the event of the bidder's failure to meet this condition, the Municipality of Callander may by written notice terminate this Contract without liability, and in such event, in addition to the above, the bidder will be liable for any and all expenses or losses incurred by the Municipality of Callander resulting from such failure.
2. The vehicle is to be delivered F.O.B. Destination, Freight Prepaid and allowed, to Municipality of Callander, 250 Main St. N., Callander, ON P0H 1H0, attention: Todd Daley, Fire Chief.
3. Deliveries are to be made between the hours of 8:00 a.m. to 4:30 p.m. Monday through Friday, excluding statutory holidays, unless other arrangements have been agreed to in writing from the Municipality of Callander.
4. The bidder shall notify the Fire Chief, Todd Daley phone: (705) 498-9618 not less than three (3) working days prior to expected delivery/arrival to permit inspection

scheduling. The Municipality of Callander will not assume any liability for a vehicle delivered to an unauthorized location.

5. The vehicle shall be inspected by the Municipality of Callander to determine compliance with the specifications and/or to test its ability to perform its intended use.

#### **DOCUMENTATION AT TIME OF DELIVERY**

1. The bidder shall provide the following documentation upon delivery:
  - i. Original Invoice.
  - ii. All necessary documentation (origin certificate, weight ticket, or new Vehicle information statement, etc.) required for licensing the vehicle for road use by the issuing Provincial/Federal authorities.

#### **DEFICIENCIES**

1. The Municipality of Callander shall have a reasonable time to inspect and to accept the vehicle. The Municipality of Callander may reject any vehicle not in accordance with the vehicle Specification. The Municipality of Callander shall notify the bidder of rejection of the vehicle whereupon the vehicle will be held subject to the disposition by the bidder. Any costs or expenses incurred by the Municipality of Callander as a result of the rejection of the vehicle are, immediately upon written demand by the Municipality of Callander, payable by the bidder, and may be set off against any payments owing by the Municipality of Callander to the bidder.
2. The Municipality of Callander reserves the retain a 10% hold back, from payments otherwise due to the bidder, in the event that significant deficiencies are identified. This holdback may be held, without interest, until replacement vehicle is received, or such deficiency or defect is remedied.

#### **PAYMENT TERMS**

1. The Municipality will **NOT** accept Proposals that require **ANY** of the following;
  - a. Deposit with the order,
  - b. Payment for chassis on delivery,
  - c. Progress payments.

Payment for the apparatus will be provided on delivery of a completed vehicle and subsequent transfer of the ownership of the vehicle.

Bidders who require any of the above will **NOT** be considered and will be subject to disqualification.

The Municipality reserves the right, at their discretion, to accept or reject the lowest or any bid.

**COMMUNICATION**

All requests for information and/or clarification as well as questions regarding the interpretation of the terms set out in this Request for Proposal should be referred to:

Todd Daley, Fire Chief at [tdaley@callander.ca](mailto:tdaley@callander.ca) or (705) 498-9618

The deadline for submission of questions is 4:30 p.m., January 2, 2019.

### FORM OF QUOTATION

We, the undersigned, having carefully examined the proposed work and the Proposal documents for the Supply of One New Mobile Water Apparatus to Callander Fire & Emergency Services, hereby agree to supply and deliver the vehicle to the satisfaction of the Owner in conformity with the said documents.

- 1. Chassis \$ \_\_\_\_\_
- 2. Body & Equipment \$ \_\_\_\_\_
- 3. Model Year \_\_\_\_\_
- 4. Delivery Date: \_\_\_\_\_
- 5. **TENDER PRICE (excluding HST)** \$ \_\_\_\_\_
- 6. **Harmonized Sales Tax (HST)** \$ \_\_\_\_\_
- 7. **TOTAL TENDER COST** \$ \_\_\_\_\_  
(including all taxes & Levies)

Date: \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone No: \_\_\_\_\_

Name of Authorized Person: \_\_\_\_\_

Position of Authorized Person: \_\_\_\_\_

Email Address: \_\_\_\_\_

Signature of Authorized Person: \_\_\_\_\_

To: **THE MUNICIPALITY OF CALLANDER**  
**280 Main St. North**  
**Callander, ON**  
**P0H 1H0**

I (WE).....  
have carefully examined the Request for Proposal, and all Documents relating thereto, including the: Addendum/Addenda No. .... to No. .... \* inclusive, Special Provisions, if any, Information for Bidders, Supplementary General Conditions, if any, General Conditions, Supplementary Specifications, if any, Specifications, if any, Standard Specifications, if any, Contract Drawings, Standard Drawings, Form of Tender, hereby tender and offer in accordance therewith to enter into a contract within the prescribed time to construct the said works in strict accordance with the contract documents and such further detail drawings as may be supplied from time-to-time and to furnish all materials, labour, tools, plant, matters and things necessary therefore complete and ready for use within the time specified for the sum of .....  
..... dollars (\$.....)  
or such other sum as may be ascertained in accordance with the Proposal.

**THE AFORESAID SUM IS MADE UP AS FOLLOWS:**

\* The Tenderer will insert here the numbers of the Addenda received by them during the tendering period and considered by them in preparing the Proposal.



## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

1	General Design and Construction	YES/NO	Exception/Comments/Required
	<p>The bidder shall make accurate statements as to the apparatus weight and dimensions and provide detailed analysis of the engineering requirements to insure the apparatus has been suitably designed.</p> <p>A copy of the weight review analysis shall be provided with the proposal.</p>		
2	Quality and Workmanship	YES/NO	Exception/Comments/Required
	<p>The Manufacturer shall maintain certification under the Canadian Welding Bureau (Certification of Companies for Fusion Welding of Aluminum). A copy of the current certification shall be submitted with the tender response.</p>		
3	Intent of Specifications	YES/NO	Exception/Comments/Required
	<p>It shall be the intent of these specifications to cover the manufacture and delivery of a complete fire apparatus. Minor details of construction and materials, which are not specified, are left to the discretion of the contractor.</p> <p>It is <b>MANDATORY</b> that the bidder provide a full set of Detailed Specifications that <b>FULLY</b> describe the proposed apparatus to allow the Municipality to fully evaluate the apparatus being offered. Completion of this document alone will not be considered sufficient information.</p> <p>Bidders shall fully describe the features and benefits of the apparatus being proposed. This should include:</p> <ul style="list-style-type: none"> <li>• Method of body construction</li> <li>• Materials used in body construction</li> <li>• Full description of all warranties</li> <li>• All other features and benefits of the proposed vehicle</li> </ul>		<p><b>NO EXCEPTION</b></p>

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

4	Warranties	YES/NO	Exception/Comments/Required
	<p>Bidders shall provide all applicable warranty details with the specifications.</p> <p>The warranty minimums shall be:</p> <ul style="list-style-type: none"> <li>• One (1) year bumper to bumper</li> <li>• Two (2) year chassis warranty</li> <li>• Ten (10) year/160,000 kilometre structural body warranty</li> <li>• Ten (10) year stainless steel plumbing</li> <li>• Ten (10) year paint warranty</li> <li>• Engine warranty</li> <li>• Transmission warranty</li> <li>• Lifetime water tank</li> <li>• Any other applicable warranties</li> </ul>		<p>The minimum warranty requirements must be met <b><u>without exception.</u></b></p> <p>Provide warranty specifications.</p>
5	ULC S515-13 Compliance referencing NFPA-1901 2016 edition	YES/NO	Exception/Comments/Required
	<p>The apparatus shall be constructed to ULC S515-13 requirements.</p>		
6	ULC Testing – Mobile Water Supply Apparatus	YES/NO	Exception/Comments/Required
	<p>This unit shall be tested by Underwriters' Laboratories of Canada at the Manufacturing plant to ensure compliance with applicable standards.</p> <p>This unit shall be tested by Underwriters' Laboratories of Canada at the Manufacturer's facility to ensure compliance with applicable standards.</p> <p>The tests include:</p> <ul style="list-style-type: none"> <li>• a weight test, to ensure that the vehicle is not overweight on either axle or in total</li> <li>• a road test, to check acceleration and braking</li> </ul>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

7	Test certification	YES/NO	Exception/Comments/Required
	<p>After this test, a plate shall be installed showing the pump capacity and RPM, test date, unit serial number and no load governed speed of the engine. The plate shall also bear the certification number as issued by ULC.</p> <p>The original of the ULC certification shall be provided with the delivery documents.</p> <p>CMVSS certification and safety mark shall be also installed.</p>		
8	GVWR	YES/NO	Exception/Comments/Required
	<p>The GVWR of the chassis shall be adequate to carry the fully equipped apparatus including full water and other tanks, the specified hose load, unequipped personnel weight, and a miscellaneous equipment allowance in accordance with specified standards.</p>		State GVWR
9	Manuals	YES/NO	Exception/Comments/Required
	<p>Provide two (2) complete copies of the operation and service manuals covering the completed apparatus (chassis components, and all ancillary components) as delivered and accepted.</p> <p>Chassis component manuals shall be those supplied by the respective manufacturer.</p>		
10	Delivery	YES/NO	Exception/Comments/Required
	<p>The successful bidder shall, at their expense, deliver the apparatus to the Fire Department.</p>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	<p><b>Delivery continued</b></p> <p>The <u>apparatus supplier</u> shall provide complete vehicle orientation to the required number of fire department staff. <b>Third party subcontractors will not be accepted for this requirement.</b></p> <p>Prior to delivery, the apparatus shall undergo a PMCVI in accordance with Province of Ontario standards. The appropriate yellow sticker shall be displayed in the chassis window and confirmation of the inspection in documentation shall be provided on delivery.</p> <p><b>The apparatus cannot be delivered, for acceptance, earlier than January 1, 2020.</b></p>		
<b>11</b>	<b>General</b>	<b>YES/NO</b>	<b>Exception/Comments/Required</b>
	Overall length not to exceed 30' 6"		<b>NO EXCEPTION DUE TO HALL RESTRICTIONS</b>
	Entire apparatus shall have Krown™ rust protection applied prior to shipment from the factory.		
	Completed apparatus shall undergo inspection and delivered fully licensed.		
	This vehicle is designed to carry the standard ULC miscellaneous equipment load of 1000 pounds for a Tanker.		
	<p>The hose bed on this vehicle is designed for the standard ULC hose storage requirement:</p> <ul style="list-style-type: none"> <li>• Minimum 7 cubic feet for 2-1/2" hose, minimum 5' long</li> </ul> <p>The hose load expected on this vehicle is:</p> <ul style="list-style-type: none"> <li>• 200' of 2-1/2" double jacket hose</li> <li>• 400' of 1-1/2" double jacket hose</li> </ul>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

13	Chassis Specifications	YES/NO	Exception/Comments/Required
	The apparatus shall be built on a 2020 Freightliner M2-112 chassis. See attached APPENDIX " A " for complete chassis details.		
	"In stock" chassis will not be considered. Chassis must be ordered for this project.		
14	CHASSIS ADDITIONS	YES/NO	Exception/Comments/Required
	<p>Fluid capacity plate: A permanent plate shall be affixed in the driver's compartment specifying the quantity and type of the following fluids used in the vehicle as applicable:</p> <ul style="list-style-type: none"> <li>• Engine Oil</li> <li>• Engine Coolant</li> <li>• Transmission Fluid</li> <li>• Pump Transmission Lubrication Fluid</li> <li>• Drive Axle Lubrication Fluid</li> <li>• Air Conditioning Refrigerant</li> <li>• Air Conditioning Lubricant</li> <li>• Power Steering Fluid</li> <li>• Air Compressor System Lubricant</li> <li>• Front Tire Cold Pressure</li> <li>• Rear Tire Cold Pressure</li> </ul>		
	Signs that states "Occupants must be seated and belted when apparatus is in motion" shall be provided. Signs must be visible from each seated position.		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	<p>Each tire valve stem is equipped with a visual pressure indicator of pressure in each tire. The tire pressure indicator shall be installed such that the indicators for <u>all</u> wheels (including interior dual wheels) shall be visible from the outboard side of the vehicle.</p>		
	<p>An information label is provided in the chassis cab, visible to the driver, stating:</p> <p><i>"When manufactured, this vehicle was:</i></p> <p><i>** m high</i></p> <p><i>** m long</i></p> <p><i>** kg GVW</i></p> <p><i>Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"</i></p>		
	<p>The ignition key shall be made non-removable from the cab interior by installation of a chain which attaches the key to the cab dash.</p>		
	<p>An accident prevention sign shall be located at the rear step area of the vehicle. It shall warn personnel that standing on the step while the vehicle is in motion is prohibited.</p>		
	<p>Heavy duty mud flaps shall be installed behind the front wheels to guard against road wash and debris.</p>		
	<p>Heavy duty mud flaps shall be installed behind the rear wheels to guard against road wash and debris.</p>		
	<p>A label indicating "Ultra Low Sulfur Diesel Only" is installed at each chassis fuel tank fill connection.</p>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	Aluminum treadplate shall be installed each side over fuel tank and battery box. The original steps shall be left to allow safe access to the cab as originally designed by the chassis manufacturer. The aluminum treadplate shall be painted with black Linex™		
	The chassis for this vehicle shall remain painted as provided by Freightliner.  The body will be painted to match the colour of the chassis.		
	The exhaust pipe shall be extended to exit ahead of the rear wheels on the right side, in compliance with the chassis manufacturer's specifications for current emissions.		
	Fuel fill is located under the cab, as provided by the chassis manufacturer.		
	Towing devices will be installed at the rear of the unit, attached directly to the frame of the chassis.		
	A two-pole master disconnect shall be provided with the chassis to isolate the batteries from electrical loads.		
	The back up alarm, provided with the chassis, shall be installed at the rear of the unit and wired to operate when the transmission is in Reverse.		
	A female air inlet fitting with integral check valve will be installed near the driver's door to allow an external air compressor to keep the chassis air brake system charged. The matching male fitting is provided.		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	An air pressure protection valve is installed to prevent loss of air to brakes from air operated accessories.		
	A 120 volt 5-20R duplex receptacle shall be installed in the chassis cab for the battery conditioner and one in L2 for the Streamlight chargers, wired to the 120-volt inlet.		
	A Kussmaul Autocharge 1000 15 A/12 VDC battery charger shall be installed in the chassis cab, unless otherwise specified in the Shop Note. A 3-amp battery saver power supply is provided to accommodate parasitic loads such as radio and battery chargers. This unit draws 3.5 A/120 VAC maximum.		
	A Kussmaul Super Auto Eject shore line inlet shall be installed in place of the standard 110-volt shore line connection. The receptacle shall incorporate a sealed enclosure to protect against corrosion.		
	Two (2) LED work lights shall be installed in the engine compartment.		
	Two (2) 24" Grover Stuttertone air horns shall be mounted on the sides of the cab hood. These shall be operated by horn ring with toggle between air and electric.		
	The chassis steering wheel will be straightened after the body and load is applied - prior to delivery to the customer.		
	A rear-view camera with heated lens and a minimum 5.6" colour LCD monitor in the chassis cab shall be installed to allow the driver to see the blind spot behind the vehicle from the chassis driver's seat.		
<b>15</b>	<b>PLUMBING</b>	<b>YES/NO</b>	<b>Exception/Comments/Required</b>
	Suction and discharge valves to be AKRON brand.		



## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	<p>All 1 ½ " or 1 ¾" threads shall be NPSH All 2 ½ " thread shall be CSA</p>		
	<p>The tank to pump plumbing shall be located in the R1 compartment. The plumbing shall be 3" stainless steel and include a valve and easy method to connect to the portable pump, housed in this compartment.</p>		
	<p>Tank fill - 2-1/2" Akron with flex hose from portable pump There shall be a 2.5" direct tank fill in the R1 compartment with valve and fitting.</p>		
<b>16</b>	<b>WATER TANK</b>	<b>YES/NO</b>	<b>Exception/Comments/Required</b>
	<p>The tank shall have the capacity specified within this proposal complete with a Lifetime Warranty. Provide a copy of the warranty with the proposal.</p>		
	<p>The booster tank shall be constructed of 1/2" thick non-corrosive Polypropylene thermoplastic. The tank shall be so designed to be completely independent of the unit body and compartments and shall be of specified configuration. The tank shall have one (1) sump and shall be constructed of 1/2" Polypropylene and location shall be specified by the purchaser. A 3" NPT schedule 40 Polypropylene pipe shall be installed with a dip tube from the front of the tank to the tank sump box. The sump shall have a 3" NPT threaded outlet on the bottom and shall be used as a combination clean out and drain. An anti-swirl plate shall be located on all tanks approximately 2" above the sump.</p>		

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	A certificate specifying the capacity of the water tank, at a minimum of 2500 Imperial gallons, shall be provided by the water tank manufacturer.		
	An opening through the water tank from front to rear shall be provided to allow storage of ladders horizontally at a lower level. The bottom of the ladder storage tunnel shall be no higher than 72".		
	<p>Tank connections:</p> <ul style="list-style-type: none"> <li>• 3" tank to pump</li> <li>• 2.5" tank fill</li> <li>• 1" water level gauge</li> <li>• 4" Fireman's Friend</li> <li>• 10" dump valve</li> <li>• 3" direct fill</li> <li>• Water box middle left</li> </ul>		
<b>17</b>	<b>DUMP VALVE</b>	<b>YES/NO</b>	<b>Exception/Comments/Required</b>
	The tank shall be fitted with an AH Stock Newton 1050-34 stainless steel dump valve. The valve shall be manually operated from a handle at the rear of the apparatus body.		
	<p>There shall be one 10" x 10" stainless steel 6012 Newton swivel chute mounted on the dump valve at the center rear of the apparatus. This line shall permit dumping tank water to an external holding tank at a minimum rate of 1000 GPM.</p> <p>The dump valve is operated by a side mounted handle with lock open and lock closed devices.</p>		
	A 36" stainless-steel telescoping chute shall be installed on the Newton dump.		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	A stainless-steel flip down chute shall be provided at the end of the telescopic chute. The flip down chute shall extend the overall length an additional 12".		
<b>18</b>	<b>TANK FILL</b>	<b>YES/NO</b>	<b>Exception/Comments/Required</b>
	A 4" direct tank fill fitted with a Fireman's Friend valve shall be located at the rear of the unit and plumbed into the fill box so that no valve is required and so that the piping will remain dry when not in use. This line is equipped with a 4" 30° Storz adapter, blind cap, and drain valve.		
	A 2 ½" direct tank fill fitted with a Fireman's Friend valve shall be located at the rear of the unit and plumbed into the fill box so that no valve is required and so that the piping will remain dry when not in use. This line is equipped with a 2.5" 30° CSA adapter, blind cap, and drain valve.		
<b>18</b>	<b>ELECTRICAL</b>	<b>YES/NO</b>	<b>Exception/Comments/Required</b>
	<p>All electrical circuit feeder wiring supplied and installed by the apparatus manufacturer shall be stranded alloy copper conductors of a gauge rated to carry 125% of the maximum current for which the circuit is protected.</p> <p>Insulation shall be in accordance with SAE J1128, type SXL, and wired to SAE J1292, for such loading at the potential employed.</p> <p>Voltage drops in all wiring from the power source to the using device shall not exceed 10%.</p> <p>Overall covering of conductors shall be 280°F. Minimum flame-retardant loom or braid.</p> <p>All connections shall be made with lugs or terminals mechanically secured to the conductors.</p>		

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	<p>Wiring shall be thoroughly secured in place and suitable protected against heat, oil and physical damage.</p> <p>All body wiring is colour coded and marked every 3" as to function.</p> <p>All circuits are protected by auto reset circuit breakers.</p> <p>The power distribution panel is located in the pump compartment or behind the back wall of the front side compartment depending on the muffler location.</p> <p>Circuits are provided with properly rated low voltage overcurrent protective breakers. Such circuit breakers are readily accessible and protected against excessive heat, physical damage and water spray.</p> <p>Switches, relays, terminals, and connectors have a direct current rating of 125% of maximum current for which the circuit is protected.</p> <p>All wiring is done to NFPA standards and SAE standards and comply with CMVSS regulations.</p> <p>All body electrical systems are multiplexed using the Weldon V-Mux system.</p>		
	<p>A VHF antenna mount shall be supplied and installed on the roof of the chassis behind the light bar, centered on the roof. The antenna cable shall be routed to the console inside the cab.</p>		
<b>19</b>	<b>WARNING LIGHTS</b>	<b>YES/NO</b>	<b>Exception/Comments/Required</b>
	<p>Certification from the warning light manufacturer shall be provided to confirm that the lighting system meets current NFPA 1901 standards.</p>		
	<p>The low voltage electrical system shall undergo the required testing and certifications.</p> <p>Documentation shall be provided with the delivery documents with the test results.</p>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	<p>A rocker switch panel shall be installed with a Master switch to control all emergency lighting to comply with applicable standards. The switch bank shall be installed in the console.</p>		
	<p>The apparatus shall be fitted with a Federal Navigator NVG60 light bar installed on the roof of the cab. The roof will be reinforced where necessary to insure a stable installation.</p>		
	<p>Two (2) Tecniq K60 LED flashers shall be mounted on the engine cowl, one on each side. The lens shall be red. The lights will be activated with the lower level warning lights.</p>		
	<p>Two (2) Tecniq K60 LED flashers shall be mounted in the chassis grille, one on each side. The lens shall be red on the driver's side and blue on the passenger side. The lights will be activated with the lower level warning lights.</p>		
	<p>Two (2) Tecniq K60 LED flashers shall be mounted on the rear of the apparatus body just above the taillight cluster, one on each side. The lens shall be red on the driver's side and blue on the passenger side. The lights will be activated with the lower level warning lights.</p>		
	<p>Four (4) Tecniq K60 LED flashers shall be mounted in the rear wheel well panel, two on each side, in the forward and rearward position. The forward lens shall be blue, the rearward lens shall be red. The lights will be activated with the lower level warning lights. The lights shall flash alternately front/rear on each side.</p>		
	<p>Four (4) Tecniq K90 LED flashers shall be mounted on the front and rear upper corners of the apparatus body, two on each side. The lights will be activated with the upper level warning lights.</p>		
	<p>Two (2) Tecniq K90 LED flashers shall be mounted in the upper rear</p>		

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	corners of the apparatus body, one on each side. The lens shall be blue on the driver's side and red on the passenger side. The lights will be activated with the lower level warning lights.		
	The rear of the apparatus body shall be fitted with a Whelen TA165NF2 Arrow style traffic advisor. The unit will be controlled from a control head located in the chassis cab on the console or dash.		
<b>20</b>	<b>LIGHTING</b>	<b>YES/NO</b>	<b>Exception/Comments/Required</b>
	Two (2) LED vertical tube type compartment lights will be provided in each enclosed compartment, one on each side of the door opening, and will be controlled automatically when compartment door is opened.		
	An LED warning light shall be installed in the chassis cab to indicate a compartment or chassis door is open if the parking brake is disengaged.  The light shall be labelled " <i>DOOR AJAR Do Not Move If Light is Flashing</i> ".		
	An LED warning light shall be installed in the chassis cab to indicate when the portable tank rack is not stowed if the parking brake is disengaged.  The light shall be labelled " <i>TANK RACK NOT STOWED Do Not Move If Light is Flashing</i> ".		
	LED style lights shall be installed to light all body work surfaces, steps, and walkways. The lights shall automatically activate when the parking brake is engaged.		
	LED style lights shall be installed to light all chassis entry steps.		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	<p>The lights shall automatically activate when the parking brake is engaged.</p>		
	<p>12" LED strip lighting shall be installed to sufficiently illuminate the rear tailboard.</p> <p>The lights shall automatically activate when the parking brake is engaged.</p>		
	<p>An LED clearance, marker, license plate light, and reflectors shall be mounted in accordance with federal regulations.</p>		
	<p>A STOP/TURN/BACKUP taillight cluster shall be created using Tecniq K60 LED lights. The lights shall be mounted vertically on the lower rear corners of the apparatus body.</p> <p>The lens colour shall be red/yellow arrow/white lens.</p>		
	<p>Two (2) Tecniq K90 SW00-1 LED scene lights shall be mounted on the rear of the apparatus body just below the rear warning lights.</p> <p>The lights will come on automatically when the vehicle is placed in reverse.</p> <p>The lights shall be optionally disabled from a switch at the rear of the apparatus body.</p>		
	<p>Four (4) Tecniq K90 SW00-1 LED scene lights shall be mounted on each side of the apparatus body, in the front and rear upper corners, paired with the warning lights.</p> <p>The lights shall be activated from a switch in the console as " RIGHT SCENE " and " LEFT SCENE ".</p>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	4" LED ground lighting shall be installed under chassis steps, operable when the cab door is opened and/or when the ground light switch is turned on.		
	4" LED body lighting shall be installed under the rear step and shall automatically activate when the parking brake is engaged.		
<b>21</b>	<b>BODY</b>	<b>YES/NO</b>	<b>Exception/Comments/Required</b>
	<p>The body of this unit is designed to ensure correct load distribution on the chassis and is constructed of custom aluminum extrusions with 3/16" alloy aluminum plate used for sides, compartments, and exterior panels.</p> <p>The body panels are interlocked with these extrusions, then MIG or TIG welded for high strength and rigidity. The body is fabricated on a subframe of min. 3" x 3" x 1/4" aluminum square tubing and is attached to the frame of the truck by a spring-loaded mounting system and UMHW plastic sills which reduce flexing in the tank and body.</p> <p>The compartments are constructed with interlocking extrusions, then MIG or TIG welded.</p> <p>Each compartment is equipped with vents in the back and drain holes in the floor. All compartments are of the "Sweep out" design for ease of cleaning.</p> <p><b>Bidders shall provide a full description of the manufacturing methods used to construct the apparatus body. Bodies using formed or bent style of construction will not be considered.</b></p>		
	The vertical trim around each rear wheel shall be painted to match the rest of the body.		
	Extruded aluminum trim shall be installed around each rear wheel and is		



## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	an integral part of the body.		
	The rear step will be 19 inches deep, made of open strut aluminum with non-slip surface, and rigidly reinforced. <b>Raised or serrated aluminum checker plate will not be accepted for this installation.</b>		
	The body style shall be rescue style – there will be no conventional compartment tops.		
	<p>Compartments: The apparatus body will include seven (7) compartments.</p> <p>LEFT SIDE:</p> <ul style="list-style-type: none"> <li>• L1 – One full height compartment with painted aluminum, flush mount door, approximately 23" wide</li> <li>• L2 – One full height compartment with roll up door, approximately 39" wide</li> <li>• L3 &amp; L4 – Two compartments over the wheels with roll up doors, approximately 53" wide x 27" high, each</li> <li>• L5 – One full height compartment with roll up door, behind the rear wheels approximately 27" wide</li> </ul> <p>RIGHT SIDE:</p> <ul style="list-style-type: none"> <li>• R1 – One compartment forward of the rear wheels, approximately 67" wide x 36" high to house the portable pump</li> <li>• R2 – One compartment rearward of the rear wheels, approximately 27" wide x 36" high</li> </ul>		
	A flush mount aluminum door - single with "D" handle shall be provided for L1.		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	<p>The compartment door is attached with full length polished stainless-steel piano hinge with a 1/4" pin. Door is a double pan, flush mount door, fabricated from 3/16" aluminum exterior and 1/8" aluminum interior pan. It is equipped with a stainless-steel D handle and slam type door latch with a striker bolt to prevent accidental opening.</p> <p>Door is bolted to the hinges to allow removal for repair, if required.</p> <p>A gas spring type door check is provided.</p>		
	<p>The tailboard shall be fully removable and spaced from the body for washout of debris, etc.</p>		
	<p>A bolt on extruded rub rail extends 3/4" beyond the body on each side. It is polished aluminum and shall be removable and spaced off the body for cleaning.</p>		
	<p>Six (6) compartments shall be equipped with an Amdor™ roll up door, custom fitted to the compartment door opening.</p> <p>Finish shall be natural aluminum.</p>		
	<p>All roll up doors shall be fitted with Amdor™ flex strap door straps.</p>		
	<p>All handrails shall be 1-1/4" outer diameter, extruded aluminum, non slip rib type tubing. Two (2) vertical rails will be mounted on the rear of the body, one (1) on each side. One (1) handrail will be installed below the level of the hose bed.</p>		
	<p>A Zico 3096 Quic-Ladder (no substitutions) shall be installed on the apparatus body for access to the hose bed. The ladder shall incorporate a 2 rung fold down section. The ladder shall also incorporate a collapsible mount to allow the ladder to be stored flat against the body for travel.</p>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	<p>The ladder shall be fitted with a non-mechanical proximity switch connected to the door ajar circuit to warn the operator that the ladder has not been stowed for travel.</p>		
	<p>Two (2) SCBA cylinder storage compartments will be installed in the rear fender wells, one each side. These consist of a cast aluminum access door and a plastic storage tube to prevent damage to the cylinder. The access door shall be painted to match the body colour.</p>		
	<p>All compartment floors without trays, all trays and all shelves shall be fitted with Turtle Tile compartment floor matting.</p>		
	<p>Four (4) adjustable shelves equipped with aluminum unistruts shall be installed in designated compartments.</p> <p>All left side compartments shall be fitted with vertical unistruts for future shelving.</p>		
	<p>The hose bed flooring shall be made up of aluminum channels and shall be properly spaced for ventilation. The flooring will be smooth and free from sharp edges to avoid hose damage. Floor will be removable for access to booster tank.</p>		
	<p>Three (3) 400-pound capacity sliding trays with gas strut shall be installed in designated locations to be determined at preconstruction.</p> <p>Each tray shall be fitted with a latch mechanism to hold it in the fully open or closed position. The trays will be fitted with rolled hose storage partitions to the full width of the tray. The partitions shall provide storage for 14 rolls of hose.</p> <ul style="list-style-type: none"> <li>• Six (6) rolls of 4" high volume rubber hose in 50' lengths</li> <li>• Four (4) rolls of 2.5" attack line in 100' lengths</li> </ul>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	<ul style="list-style-type: none"> <li>Four (4) rolls of 1 ¾ hose in 100' lengths</li> </ul>		
	<p>A double stacked hard suction storage tube with door shall be provided, for two (2) suction hose tubes. The storage tube(s) shall be provided at the rear of the apparatus, as low as possible.</p> <p>The suction tube door with be fitted with a lift and turn latch and covered with chevron material.</p>		
	<p>A rear access slideway is installed for the ladder through the tank, including a strap to hold the ladders in place.</p>		
	<p>Two (2) storage tubes for pike poles shall be installed with access at the rear, in one corner of the suction hose tube.</p>		
	<p>A Zico hydraulic portable tank mounting system will be installed to lower the portable tank from the stored position on the right side of the truck. The system must be wired so that it can only operate when the parking brake is engaged.</p> <p>Flashing lights and reflective tape are installed at front and rear to indicate any areas that protrude beyond the body.</p>		
	<p>The switch to operate the electric portable tank rack is installed on the same side of the body as the portable tank rack and at the rear, above the tail light.</p>		
	<p>The portable tank mounting system shall be nested into the body so as to be protected and the upper portion of the body shall be widened similar to a rescue style body. This body configuration will surround the tank at the front, rear and top.</p>		
	<p>An aluminum plate painted to match the truck exterior shall be installed on the outside of the portable tank rack.</p>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	Aluminum tread plate shall be installed on the side of the body behind the portable tank rack to prevent damage to painted surfaces from the portable tank.		
<b>22</b>	<b>PAINT and GRAPHICS</b>	<b>YES/NO</b>	<b>Exception/Comments/Required</b>
	<p>All compartment doors, removable components, flush mounted lights, drip moldings, accessories, and other equipment shall be mounted on the body prior to painting, then removed for final finishing to assure paint has been applied to surfaces under all equipment and components.</p> <p>All exterior surfaces of the body except tread plate and polished stainless steel are painted to prevent corrosion.</p> <p>The body is buffed, primed with acid etching primer, epoxy primed, painted with polyurethane enamel, and clear coated.</p>		
	After inspection and prior to shipment, the entire cab and body shall be treated with KROWN™ rust protection. An application certification document shall be provided with the delivery documents.		
	The chassis tires shall be masked, and the wheels are painted the same colour as the body. A silver highlight stripe is painted around the rim next to the tire.		
	<p>All surfaces of exterior aluminum checker plate shall be painted with black zolatone or Linex™ paint finish to protect against corrosion.</p> <p>This shall include;</p> <ul style="list-style-type: none"> <li>- Rear tailboard</li> </ul>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	<ul style="list-style-type: none"> <li>- Extruded aluminum rubrail</li> <li>- Protective plate behind portable water tank</li> <li>- Chassis step backplates</li> </ul>		
	<p>The compartment interiors are finished with a gray textured paint for chip resistance. Shelves, trays, and hardware are left natural aluminum.</p>		
	<p>The completed apparatus shall be lettered in accordance with the requirements of the fire department:</p> <ul style="list-style-type: none"> <li>• Callander logo on each cab door</li> <li>• "FIRE AND EMERGENCY SERVICES" on each door</li> <li>• Canadian flag on L5 lower and R2</li> <li>• Fire safety message on portable tank side</li> </ul>		
	<p>A 4" high, white, Scotchlite™ stripe will be provided on the apparatus in accordance with ULC. The stripe will be applied on a minimum of 50 percent of each side of the unit and 25 percent on the front of the unit.</p> <p>The stripe will be white reflective and run through the chassis door, and in a " Z " pattern through L1 &amp; L2 and then straight thru L3, L4, &amp; L5.</p> <p>The stripe will run thru the chassis door and straight through R1 &amp; R2 on the right side.</p>		
	<p>An NFPA compliant reflective chevron is applied to cover at least 50% of the rear facing vertical surface of the vehicle.</p> <p>This consists of alternating red and yellow reflective stripes, 6" wide, in a chevron pattern, sloping down and away from the centerline of the vehicle at an angle of 45 degrees.</p> <p>The chevron material shall be 3M™ Diamond grade.</p>		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

23	INSTRUMENTATION	YES/NO	Exception/Comments/Required
	Identification plates will be provided for all gauges, controls, connections, switches, inlets, and outlets. Plates will be engraved in color coded polymer material for durability and accurate identification of controls.		
	A Class 1 Water Level gauge shall be installed on vertical body panel directly above the R1 compartment. The gauge shall be enabled when the parking brake is engaged.		
	An additional readout water level gauge shall be installed at the rear of the body. The water level gauge on the rear of the apparatus body shall only be enabled when the park brake is engaged.		
	A readout for the battery conditioner shall be installed adjacent to the auto eject plug or alternate location to be determined.  The readout connections shall be protected by a sealed weatherproof enclosure.		
24	ACCESSORIES	YES/NO	Exception/Comments/Required
	Only those accessories below are required to be supplied by the Contractor:		
	Two (2) 4"x10' lightweight suction hose each with threaded pyrolite fittings		
	One (1) 4" barrel strainer, threaded pyrolite		
	One (1) 4" low level strainer with 1-1/2" NPSH venturi connection		

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

One (1) Rubber mallet with fibreglass handle		
Two (2) triple hose wrenches with holder (2 for rocker lug connections) and hydrant wrench with panel mount bracket		
Two (2) Pike pole, fibreglass handle - 6' long - "D" handle		
One (1) Axe, pick head, fibreglass handle and mounting bracket		
One (1) 35', 3 fly section, extension ladder - Alco Lite PEL3-35		
One (1) 3000 Imperial gallon portable tank - Husky with hand holds on bottom and suction sleeve, aluminum frame, dual drain sleeves, yellow bladder.		
One (1) 20 lb. ABC dry chemical fire extinguisher and vehicle mount.		
Two (2) SCBA bracket with strap – mounted in designated compartment		
Two (2) Horizontal bracket for each folding wheel chock.		
One (1) smooth bore nozzle 2-1/2"		
One (1) smooth bore nozzle 1-1/2"		
Two (2) Portable hand light with 12-volt charger – Streamlight Survivor mounted in chassis cab.		
One (1) First Aid Kit		
One (1) Double female adapter 2-1/2" PYROLITE		
One (1) Double male adapter 2-1/2" PYROLITE		



## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	One (1) Zoll AED+ Automatic External Defibrillator		
	One (1) CET PFP-30HP-KHL-2D Portable pump with a 30 HP Kohler engine and 2 - 2-1/2" Discharges shall be supplied and installed in the right front compartment on the sliding tray. The battery on the pump shall be wired to the onboard charging system with quick disconnects to allow the pump to be removed from the vehicle.		
	Two (2) large folding wheel chock, cast aluminum, approved for use on tires up to 44" diameter.		
	Four (4) 77 mm (3") rubber fire hose - 50' lengths		
	Six (6) 100 mm Hi-vol hose with Storz ends - 50' lengths		
	Six (6) 45 mm fire hose – 50' lengths		
	One (1) Gated wye - 4" Storz inlet x CSA 2.5" x CSA 2.5" threaded discharge		
	One (1) Gated Wye – 4" Storz inlet x 4" x 4" Storz discharge		
	One (1) Portable scene light - Streamlight model 45670		
	Two (2) Zico UHH-1 Helmet holder – both mounted – location to be determined, include mounts		
	One (1) pink "Emergency Scene Ahead" collapsible road sign		
	It shall be the responsibility of the bidder to supply the necessary brackets, holders and mounts to install all the equipment (some not listed here) on the apparatus. The bidder shall aid in the location of this		



The Corporation of the Municipality of Callander  
280 Main St. N.  
Callander, ON  
POH 1H0  
(705) 752-1410



Callander Fire & Emergency Services  
250 Main St. N.  
Callander, ON  
POH 1H0  
(705) 752-1410 x225

## MOBILE WATER APPARATUS - REQUEST FOR PROPOSAL SPECIFICATIONS

	equipment and provide the necessary labour to complete the installation. All mounts to be PAC <sub>TM</sub> brand or Akron <sub>TM</sub> brand.		
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# APPENDIX " A " CHASSIS SPECIFICATIONS

## *Municipality of Callander*

### Freightliner M2 106



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



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

Data Code	Description	Weight Front	Weight Rear
<b>Price Level</b>			
PRL-18M	M2 PRL-18M (EFF:04/17/18)		
<b>Data Version</b>			
DRL-030	SPECPRO21 DATA RELEASE VER 030		
<b>Interior Convenience/Driver Retention Package</b>			
055-002	INTERIOR CONVENIENCE PACKAGE		
<b>Vehicle Configuration</b>			
001-172	M2 106 CONVENTIONAL CHASSIS	5,759	3,503
004-220	2020 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-002	STRAIGHT TRUCK PROVISION		
003-001	LH PRIMARY STEERING LOCATION		
<b>General Service</b>			
AA1-002	TRUCK CONFIGURATION		
AA6-003	DOMICILED, CANADA (OTHER THAN QUEBEC)		
RCE-00F	FIXED CANADIAN EXCHANGE		
A85-020	FIRE SERVICE		
A84-1EV	EMERGENCY VEHICLES BUSINESS SEGMENT		
AA4-002	LIQUID BULK COMMODITY		
AA5-006	TERRAIN/DUTY: 10% (SOME) OF THE TIME, IN TRANSIT, IS SPENT ON NON-PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-003	MAINTAINED GRAVEL OR CRUSHED ROCK - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-091	MEDIUM TRUCK WARRANTY		



Data Code	Description	Weight Front	Weight Rear
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 18740.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 64740.0 lbs		

### Truck Service

AA3-027	FIRE TANK/PUMPER - MAIN DRIVELINE DRIVEN SPLIT-SHAFT PTO/PUMP		
AF3-537	BODY BUILDER		
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in		

### Engine

101-23B	CUM L9 350EV HP @ 2000 RPM, 2200 GOV RPM , 1000 LB/FT @ 1400 RPM	640	30
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### Electronic Parameters

79A-066	66 MPH ROAD SPEED LIMIT		
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
79K-007	PTO MODE ENGINE RPM LIMIT - 1100 RPM		
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM		
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
80G-002	PTO MINIMUM RPM - 700		
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		

### Engine Equipment

99C-017	2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION		
99D-010	NO 2008 CARB EMISSION CERTIFICATION		
13E-001	STANDARD OIL PAN		
105-001	ENGINE MOUNTED OIL CHECK AND FILL		
133-004	ONE PIECE VALVE COVER		



<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
014-1BX	SIDE OF HOOD AIR INTAKE WITH NFPA COMPLIANT EMBER SCREEN AND FIRE RETARDANT DONALDSON AIR CLEANER		
124-1E7	DR 12V 275 AMP 40-SI BRUSHLESS PAD ALTERNATOR WITH REMOTE BATTERY VOLTAGE SENSE	10	
292-208	(2) DTNA GENUINE, FLOODED STARTING, MIN 2250CCA, 390RC, THREADED STUD BATTERIES		
290-017	BATTERY BOX FRAME MOUNTED		
281-001	STANDARD BATTERY JUMPERS		
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB		
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
289-001	NON-POLISHED BATTERY BOX COVER		
87P-001	CAB AUXILIARY POWER CABLE	5	
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8	
295-003	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART CHASSIS MOUNTED LH BACK OF CAB	4	
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR		
131-013	AIR COMPRESSOR DISCHARGE LINE		
152-039	GVG, FIRE AND EMERGENCY SERVICE VEHICLES ENGINE WARNING		
128-076	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	20	
016-1DC	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES	10	5
28F-007	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND DASH MOUNTED SINGLE REGENERATION REQUEST/INHIBIT SWITCH		



<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
239-001	STANDARD EXHAUST SYSTEM LENGTH		
237-022	RH HORIZONTAL TAILPIPE, EXIT FORWARD OF REAR TIRES AT 90 DEGREES	20	20
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK		
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
273-018	HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE		
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED		
110-003	CUMMINS SPIN ON FUEL FILTER		
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER		
120-009	FLEETGUARD PLAIN COOLANT FILTER		
266-013	1100 SQUARE INCH ALUMINUM RADIATOR	20	
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
270-008	AUXILIARY ENGINE COOLING USING WATER FROM FIRE PUMP	10	
168-002	LOWER RADIATOR GUARD		
134-001	ALUMINUM FLYWHEEL HOUSING		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH		

### Transmission

342-1KD	ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60
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### Transmission Equipment



<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
343-331	ALLISON VOCATIONAL PACKAGE 198 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL EVS		
84B-003	ALLISON VOCATIONAL RATING FOR FIRE TRUCK/EMERGENCY VEHICLE APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES		
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84J-000	ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84K-000	ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
84N-000	NEUTRAL AT STOP - DISABLED, FUELSENSE - DISABLED		
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
353-026	VEHICLE INTERFACE WIRING CONNECTOR WITH PDM AND NO BLUNT CUTS, AT BACK OF CAB		





<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
362-1Y2	(2) CUSTOMER INSTALLED MUNCIE CS10 SERIES PTO'S		
363-011	PTO MOUNTING, LH AND RH SIDES OF MAIN TRANSMISSION		
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

### Front Axle and Equipment

400-1BB	DETROIT DA-F-20.0-5 20,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	210	
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10	
403-026	FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING		
419-023	CONMET CAST IRON FRONT BRAKE DRUMS		
427-001	FRONT BRAKE DUST SHIELDS	5	
409-006	FRONT OIL SEALS		
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-007	BENDIX VERSAJUST AUTOMATIC FRONT SLACK ADJUSTERS		
536-055	TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	130	
539-003	POWER STEERING PUMP		
534-003	4 QUART POWER STEERING RESERVOIR	5	



Data Code	Description	Weight Front	Weight Rear
533-001	OIL/AIR POWER STEERING COOLER		
40T-002	SYNTHETIC 75W-90 FRONT AXLE LUBE		
<b>Front Suspension</b>			
620-025	20,000# TAPERLEAF FRONT SUSPENSION	200	
619-005	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
410-001	FRONT SHOCK ABSORBERS		
<b>Rear Axle and Equipment</b>			
420-059	RT-46-164P 46,000# R-SERIES TANDEM REAR AXLE		3,070
421-614	6.14 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-074	MXL 176T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	25	25
388-073	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
452-005	DRIVER CONTROLLED TRACTION DIFFERENTIAL - REAR MOST TANDEM/TRIDEM REAR AXLE		20
878-021	(1) INTERAXLE LOCK VALVE AND (1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR-REAR AXLE VALVE		
87A-001	BLINKING LAMP WITH EACH INTERAXLE LOCK SWITCH, INTERAXLE UNLOCK DEFAULT WITH IGNITION OFF		
87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH		
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-025	FIRE AND EMERGENCY SEVERE SERVICE NON-ASBESTOS REAR BRAKE LINING		
434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		10



<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
440-006	REAR OIL SEALS		
426-1B3	BENDIX EVERSURE LONGSTROKE 2-DRIVE AXLES SPRING PARKING CHAMBERS		20
428-007	BENDIX VERSAJUST AUTOMATIC REAR SLACK ADJUSTERS		
41T-002	SYNTHETIC 75W-90 REAR AXLE LUBE		
<b>Rear Suspension</b>			
622-269	HN 462 @46,000# REAR SUSPENSION		330
621-035	HENDRICKSON HN 400/460 9.56" RIDE HEIGHT		
624-009	54 INCH AXLE SPACING		
628-010	HENDRICKSON HN, HAULMAAX AND ULTIMAAX SERIES STEEL BEAMS WITH BAR PIN		
623-006	FORE/AFT AND TRANSVERSE CONTROL RODS		
439-002	REAR SHOCK ABSORBERS - TWO AXLES (TANDEM)		60
<b>Brake System</b>			
018-002	AIR BRAKE PACKAGE		
490-101	WABCO 4S/4M ABS WITH TRACTION CONTROL, WITH ATC OFF-ROAD SWITCH		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		
46D-001	STANDARD AIR SYSTEM PRESSURE PROTECTION AND 85 PSI PRESSURE PROTECTION FOR AIR HORN(S)		
413-002	STD U.S. FRONT BRAKE VALVE		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-009	BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	20	
479-003	AIR DRYER MOUNTED INBOARD ON LH RAIL		
460-058	STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION		
46A-002	(1) 1350 CUBIC INCH AUXILIARY AIR TANK, INLET CHECK VALVE	20	20



Data Code	Description	Weight Front	Weight Rear
607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD		
477-024	BW DV-2 AUTO DRAIN VALVE WITH HEATER ON ALL TANK(S)		
<b>Trailer Connections</b>			
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT		
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT		
<b>Wheelbase &amp; Frame</b>			
545-630	6300MM (248 INCH) WHEELBASE		
546-102	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI	470	320
552-063	2550MM (100 INCH) REAR FRAME OVERHANG		
55W-009	FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-50	210
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 182.45 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 179.45 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 377.79		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 182.45 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 125.23 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 230.28 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		
559-003	LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER	-12	
561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REAR MOST CROSSMEMBER		
565-002	HEAVY DUTY SUSPENSION CROSSMEMBER		30

### Chassis Equipment



<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
556-1AR	THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS	30	
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
605-103	D15-28195-000 CENTER PUNCH TO MARK CENTERLINE OF REAR SUSPENSION ON TOP FLANGE OF FRAME		
970-038	TANK BODY 0 TO 1500 GALLONS		

### Fuel Tanks

204-215	50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	20	
218-005	RECTANGULAR FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
122-1H3	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR	-5	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
11F-998	NO NATURAL GAS VEHICLE FUEL TANK VENT LINE/STACK		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		

### Tires

093-0TA	MICHELIN XZY-3 385/65R22.5 18 PLY RADIAL FRONT TIRES	130	
094-0GP	MICHELIN XDN2 11R22.5 16 PLY RADIAL REAR TIRES		160

### Hubs



<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		
<b>Wheels</b>			
502-1H5	ALCOA LVL ONE 82462X 22.5X12.25 10-HUB PILOT 4.68 INSET 10-HAND ALUMINUM DISC FRONT WHEELS	-8	
505-1EF	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS		-200
524-022	POLISHED DISC SIDE FRONT WHEELS WITH DURA-BRIGHT FINISH		
525-026	POLISHED OUTER AND INNER (DISHED SIDES) REAR WHEELS WITH ALL DURA-BRIGHT FINISH		
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
<b>Cab Exterior</b>			
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTING		
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
754-008	2-1/2 INCH FENDER EXTENSIONS	10	
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT		
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE		
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
690-007	HOOD LINER INSULATION WITH SINGLE FIREWALL INSULATION		
727-1B0	DUAL 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR HORNS	8	
726-002	DUAL ELECTRIC HORNS		
728-002	DUAL HORN SHIELDS		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		



<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
312-088	LED HEADLIGHT ASSEMBLY AND INCANDESCENT MARKER/TURN LAMP WITH CHROME BEZEL		
302-047	LED AERODYNAMIC MARKER LIGHTS		
315-062	RECTANGULAR CLEAR FOG LIGHTS MOUNTED UNDER BUMPER	6	
311-001	DAYTIME RUNNING LIGHTS		
294-021	TRUCK-LITE 3 CHAMBER MODULES WITH 45 SERIES SEALED BEAM LAMPS		5
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
74A-001	RH DOWN VIEW MIRROR		
729-001	STANDARD SIDE/REAR REFLECTORS		
677-055	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER		
764-010	COMPOSITE EXTERIOR SUN VISOR	10	
768-998	NO REAR WINDOW	-20	
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS		
654-011	RH AND LH ELECTRIC POWERED WINDOWS	4	
663-013	TINTED WINDSHIELD		
659-020	2 GALLON WINDSHIELD WASHER RESERVOIR WITH FLUID LEVEL INDICATOR, FRAME MOUNTED		

### Cab Interior

707-1AK	OPAL GRAY VINYL INTERIOR		
706-016	MOLDED DOOR PANEL WITH UPPER VINYL INSERTS		
708-016	MOLDED DOOR PANEL WITH UPPER VINYL INSERTS		
772-006	BLACK MATS WITH SINGLE INSULATION		



<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
691-014	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS AND ADDITIONAL CENTER COMPARTMENT WITHOUT NETTING		
694-010	IN DASH STORAGE BIN		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-006	GRAY/CHARCOAL FLAT DASH		
860-004	SMART SWITCH EXPANSION MODULE		
720-003	5 LB. FIRE EXTINGUISHER	10	
714-001	FIRST AID KIT	2	
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-034	PREMIUM INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-011	DOMED DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF		
655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS		
284-101	(1) 12V POWER SUPPLY (1) DUAL 2.1 AMP USB CHARGER IN DASH		
722-002	TRIANGULAR REFLECTORS WITHOUT FLARES	10	
756-1E7	SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT WITH NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR	50	
760-1E7	SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR	40	15
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		





<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
758-017	GRAY CORDURA PLUS CLOTH DRIVER SEAT COVER		
761-017	GRAY CORDURA PLUS CLOTH PASSENGER SEAT COVER		
763-105	NFPA 1901-2009 HIGH VISIBILITY ORANGE SEAT BELTS		
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10	
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

### **Instruments & Controls**

732-003	WOODGRAIN DRIVER INSTRUMENT PANEL		
734-003	WOODGRAIN CENTER INSTRUMENT PANEL		
87L-003	ENGINE REMOTE INTERFACE WITH PARK BRAKE AND NEUTRAL INTERLOCKS		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-003	DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
721-001	97 DB BACKUP ALARM		3
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-071	ENGINE REMOTE INTERFACE WITH INCREMENT/DECREMENT		



<b>Data Code</b>	<b>Description</b>	<b>Weight Front</b>	<b>Weight Rear</b>
163-001	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-051	CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS		
49B-004	ELECTRONIC STABILITY CONTROL		
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
786-119	NFPA VEHICLE DATA RECORDER AND SEATBELT DISPLAY		
810-028	ELECTRONIC KPH SPEEDOMETER WITH SECONDARY MPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP		
264-028	(2) LH AND RH FOOT SWITCHES WITH DASH SWITCH FOR HORN BUTTON TO CONTROL AIR HORN, DEFAULT TO ELECTRIC <85 PSI		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		

## Design

065-902	TWO COLOR CUSTOM PAINT		
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Data Code	Description	Weight Front	Weight Rear
<b>Color</b>			
980-5F6	CAB COLOR A: L0006EB WHITE ELITE BC		
981-2L4	CAB COLOR B: L2225EB CANDY APPLE RED ELITE BC		
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
976-995	SUNVISOR PAINTED SAME AS CAB COLOR A		
963-003	STANDARD E COAT/UNDERCOATING		

#### Certification / Compliance

996-002	CANADA CMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS
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#### Secondary Factory Options

998-032	CORPORATE PDI CENTER OPTION INSTALLATION/MODIFICATION ONLY
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### TOTAL VEHICLE SUMMARY

#### Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight <sup>+</sup>	8061 lbs	7716 lbs	15777 lbs
Total Weight <sup>+</sup>	8061 lbs	7716 lbs	15777 lbs

#### Extended Warranty

WAG-010	TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$550 CAP FEX APPLIES
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