

# **Barrington Fire & Rescue Tank Truck Proposal**

**Prepared by Dingee Machine Company**  
**February 28, 2020**

# Dingee Machine Company

195 NH Route 120

Cornish, NH 03745

603-542-9682 • 603-542-0915 (fax)

[dingeemachine@comcast.net](mailto:dingeemachine@comcast.net)

Barrington Fire & Rescue  
774 Franklin Pierce Highway  
Barrington, NH 03825

February 28, 2020

Dear Chief Walker,

Our quote to refurbish your department's Tanker which includes mounting your existing Tanker body on a new Freightliner M2 106 chassis and installing a new pump is \$219,006.00. Please see included documents for what is included in this quoted price.

**Payment Term:**

The above quoted cost is for one (1) payment to be made at the time of delivery and acceptance.

**Options:**

Please refer to your requested options page for these items.

Please feel free to contact us with any questions that you may have.

Thank you,



Ashley Cunningham



**TOWN OF BARRINGTON**  
NEW HAMPSHIRE

Fire Department

**2020 Tank Truck Bid Proposal**

CONTRACTOR INFORMATION

Contractor's Name: Dingee Machine Company

Contact Person: Larry Dingee or Ashley Cunningham

Mailing Address: PO Box 162 Cornish Flat, NH 03746

Phone Number: 603.542.9682

Email: dingeemachine@comcast.net

**Proposal**

Additional information: Please review our enclosed documents and feel free to contact me with any questions that you may have.

**References (provide at least 3)**

Name/Contact Name	Phone Number	Year(s)
Hollis (NH) Fire Department/ Chief Towne	603.465.6001	25
Falmouth (ME) Fire Department/ Chief Rice or Asst. Chief Hallett	207.781.2610	8
Fort Kent (ME) Fire Department/ Chief Endee	207.316.2789	8
More references are available upon request.		

By signing below, you certify the rates above and a full understanding of the services as proposed and outlined in the scope of services.

Name and Title of Authorized Signatory: Ashley Cunningham, Sales

Signature: Ashley Cunningham Date: 2.28.20

## **Proposal to the Town of Barrington for work as described in the above packet**

### **Option 1:**

Total price for current truck picked up at BF&R, body removed, and old chassis, in drivable condition, delivered to (Barrington Highway Department) 226 Smoke St. Barrington NH. Above specified work performed. New tank truck in service delivered to 774 Franklin Pierce Hwy. Barrington NH (Barrington F&R).

Total Price for Option 1: \$219,006.00; Estimated Delivery Date: Two-hundred eighty calendar (280) days, dependent upon timely delivery of chassis.

### **Option 2:**

Total price of above specified work (Option 1) if the Town pays for the new chassis upon delivery to the manufacturer.

Total Price for Option 2: \$216,506.00; Estimated Delivery Date: Two-Hundred Eighty (280) Calendar days, dependent upon timely delivery of chassis.

### **Option 3:**

Total price for the above specified work if the Town of Barrington purchases the new Freightliner Chassis (based on manufacturer specified frame dimensions) and have it delivered to the manufacturer's location. Manufacturer to perform above specified work, and responsible for above specified vehicle transportation to 774 Franklin Pierce Hwy. Barrington NH.

Total Price for Option 3: \$122,525.00; Estimated Delivery Date: One hundred ninety (190) calendar days FOLLOWING chassis delivery.

### **Option 4:**

Price difference if the Town of Barrington provides all vehicle transportation.

Total Price for Option 4: DEDUCT \$1,000.00; Estimated Delivery Date: N/A

### **Paint Quote:**

In the event the factory cab paint does not match the poly body, please provide a quote to prepare and paint the Freightliner cab to match our poly body. This quote shall be in addition to final bid price.

Paint Quote: \$2,750.00



**Trade in value:**

Cash value of the 1994 International cab and chassis, to be removed from the selected bid option above, should the Town of Barrington decide to not keep the old chassis. Trade value shall have no bearing on bid award.

Total Cash Trade Value: \$1,500.00

# **BARRINGTON FIRE & RESCUE TANK TRUCK BID PROPOSAL 2020**

## **Scope of Work**

Scope to include providing a new 2020 Freightliner M2-106 single axle chassis, removal of existing poly tanker water tank/body and mounting it on the new Freightliner chassis, with new split shaft midship fire pump. Vehicle shall be retrofitted with new LED warning and scene lighting, and lettering per Town of Barrington specification.

## **Work to Include:**

Removal of body from current chassis, to be performed in a professional manner to allow the chassis to remain serviceable/drivable. Pump and pump house do not have to remain on chassis but can remain in place depending on need and ease of body removal.

Please be aware that on the M2-106 chassis our dealer is telling us that the largest engine available is the L9 rated at 350 horsepower due to cooling issues. The optional charge to upgrade to the M2-112 chassis with the 380 horsepower engine is \$5,190.00.

In addition, if we are chosen to do this work for your fire department, we are requesting adequate time and flexibility to determine axle loading with the desired wheelbase, because of the extended cab option.

## **Cab and Chassis Specification**

Please see included detailed specification from Freightliner of New Hampshire located in Lebanon.

2020 Freightliner M2-106 2 door cab with extension.

Cummings ISL9 380 hp. engine with compression brake.

350hp. quoted with option for 380hp.

Allison EVS 3000 automatic transmission.

18,000 lb. front axle.

30,000 lb. rear axle, with locking differential.

Auxiliary rear helper springs.

Aluminum wheels, chrome axle nut covers.

Mud and snow tires on the rear.

270 Amp alternator.

Air ride driver's seat.

(2) passenger seats with SCBA brackets, middle seat to be installed at the back of the cab.

We are presently waiting for engineering assistance for rear SCBA seat. The present cost includes non-SCBA seat.

Battery disconnect switch inside the cab within easy access of the driver's seat.

Trimmed battery box and factory fuel tank.

Cost included for Dingee Machine to enclose area under extended cab.

Chrome front bumper.

Chrome grab handles on both sides of the truck.

## **BARRINGTON FIRE & RESCUE TANK TRUCK BID PROPOSAL 2020**

Chrome Air horns, Air horn activation switch(s) must be within easy reach of both driver and front seat passenger.

Exact location of activation switch will be determined at PreCon.

Vehicle shall be equipped with heated mirrors.

### **New Chassis Preparation**

Install wiring backbone and power distribution studs.

Included in the chassis price are an adequate number of Freightliner SmartPlex switches for all lighting requirements.

Wire seatbelt switch alarm system.

We comply with this request. This system will come installed from Freightliner.

Install and wire auto eject electric outlet and battery conditioner.

We comply with this request. Our quote is for a Kussmaul AutoCharge 1000 with 20amp auto eject. These items shall be supplied and installed by Dingee Machine Company.

Install auto eject air inlet plumbed to chassis air.

We comply with this request. This item shall be supplied and installed by Dingee Machine Company.

Install and wire Whelen Freedom NFPA lightbar on the roof, with forward scene lighting capability.

We comply with this request. We would be supplying a Whelen Pioneer single panel forward face brow light with separate switch. Light bar will be equipped with five (5) inch high brackets to clear brow light.

Install and wire (2) Whelen M6 warning lights on the grille, and (2) Whelen M6 warning lights, one on each side of the hood.

We comply with this request. It is uncertain whether the M6 lights on each side of the hood will fit because of air horn placement. If not, alternate sized will be supplied.

Install and wire a Whelen electronic siren and bumper mounted speaker.

We comply with this request. Our quoted cost is for a Whelen --- siren and one (1) 100 watt speaker.

Install switch matrix in the cab as directed by Barrington Fire and Rescue.

Lights shall be switched utilizing the included SmartPlex switches from Freightliner.

### **Body Removal and Equipment Updates**

Remove pump plumbing from water tank to facilitate water tank removal.

We comply with this request.

Remove hose bed dividers, hose bed floor, water level indicator, and dump and fill valves.

We comply with this request.

Remove and inspect the water tank.

We comply with this request.

Rinse out the inside of the water tank through the tank floor sump.

We comply with this request.

Remove electrical connections and air lines that control the dump valves and chutes.



## **BARRINGTON FIRE & RESCUE TANK TRUCK BID PROPOSAL 2020**

**We comply with this request.**

Un-bolt body sub-frame and prepare poly body for removal.

**We comply with this request.**

Remove body from old chassis, clean and remove dirt from body and water tank using a high-pressure washer.

**We comply with this request.**

Update body stop, turn, taillights and ICC lights with new Whelen M6 light cluster bezels.

**We comply with this request.**

Install new Whelen beacons high on each side of the rear body.

**We comply with this request using Whelen L31 LED beacons.**

Install new LED ground lights under the apparatus body, switched from cab and compartment lighting.

**We comply with this request using LED lights.**

(4) Four Whelen M9, 12-volt scene lights shall be installed on the tank body one on each side and two rear facing switched from inside the cab.

**We comply with this request.**

Install new water level gauge with tank level indicator lights, one at the rear of the tank and one at the pump panel.

**We comply with this request. A FRC TankVision LED water level gauge will be installed at the pump panel and an additional LED water level gauge will be installed at the rear of the truck.**

Install (2) Two aluminum adjustable shelves, (1) one 200 lb. slide out tray and (1) one 600lb. slide out tray as directed by Barrington Fire & Rescue.

**We comply with this request.**

Fabricate hose containment system to protect cross-lay hose from deployment.

**Vinyl NFPA compliant crosslay cover will be supplied.**

The remaining area next to the cross-lays (dunnage area) shall serve as storage area for long handled tools and equipment. Exact size to be determined by BF&R after layout of chassis wheelbase etc.

**It is our intention to fabricate a pump compartment shorter than the existing in order to assist in adequately loading the front axle because of the extended cab option.**

Hose bed wall shall be raised as needed to accommodate additional hose bed capacity as mutually agreed upon by manufacturer and Barrington Fire and Rescue based upon weight capacity of the chassis.

**We comply with this request.**

A D&S hose bed cover will be fitted over the top for securing hose load with a fitted rear chevron flap.

**We comply with this request.**

### **Pump**

Install Department specified, Hale 1000 GPM, single stage, split shaft fire pump on new chassis, connect associated wiring and controls to the chassis.

## **BARRINGTON FIRE & RESCUE TANK TRUCK BID PROPOSAL 2020**

Remove and rework/balance existing driveshaft to couple to driveline.

Install air pump shift and associated plumbing to accessory air tanks.

**We comply with this request.**

Hale "safe buy" module pump house shall service two 1.75" NST crosslays plumbed with 2" pipe.

**It is our intention to fabricate a custom sized module in-house due to the fact of needing to keep it as short as possible to allow adequate front axle loading due to the extended cab.**

Install (1) one 2.5" NST discharge on the left side.

**We comply with this request.**

**NOTE: All valves will be either Akron or Elkhart.**

Install (1) one 3" discharge on the right side, terminated with a 3" X 4" Stortz adaptor and blind cap.

**We comply with this request. This will be a slow-closed style valve per NFPA requirements.**

Each discharge shall have a 2.5" gauge with "T" handle control, bleeder and chrome cap as needed.

**We comply with this request.**

Water intakes shall be chrome capped, 6" NST, one on each side of the vehicle.

**We comply with this request.**

A 2.5" NST capped, gated water intake shall be provided on the left side operators panel.

**We comply with this request.**

An adjustable discharge relief valve shall be provided on the pump panel, as well as a preset intake relief valve located behind a stainless-steel pump panel.

**We comply with this request. However, the discharge relief valve function will be accomplished by use of the FRC Pump Boss engine governor.**

New pipe shall be used for all plumbing of the tank and pump.

**We comply with this request. All piping shall be stainless steel Schedule 10 or greater.**

Pump shall be capable of 650 GPM from the tank.

**We comply with this request. It is our intention to pipe the existing two (2) tank suction ports together using a single three (3) inch valve in order to obtain the requested flow rate.**

### **Body Reinstallation**

Apparatus body shall be installed on the new chassis using new isolators and tank rubber as needed prior to water tank reinstallation.

**We comply with this request.**

A new Akron direct tank fill valve shall be provided on the rear of the apparatus body and fitted with the correct inlet adaptor.

**We comply with this request.**



## **BARRINGTON FIRE & RESCUE TANK TRUCK BID PROPOSAL 2020**

Dump control valves shall be updated in a manner mutually agreed upon by the manufacturer and Barrington Fire & Rescue to provide for maintenance and modernization.

**We comply with this request.**

All connections made and unit tested for service intended and readied for service.

**We comply with this request. Dingee Machine will supply in-house pump test certification upon delivery.**

### **Paint & Lettering**

Vehicle paint shall be mutually agreed upon between the vendor and the town.

Any paint matching will be done to the cab to match our poly body. Vendor to provide quote to paint cab below in the option section,

**Cost is included for Freightliner custom color.**

Vehicle lettering shall be gold vinyl to match existing apparatus.

**We comply with this request.**

Installation of a town seal on each side of the vehicle. Town seals to be supplied by the Town of Barrington.

**We comply with this request.**

### **Threshold Requirements**

Each firm by the submission, understands and agrees that the award of a contract shall be contingent upon the successful applicant providing the Town of Barrington with proof of insurance coverage. The selected firm shall provide proof of insurance including but not limited to:

- a. Worker's Compensation with statutory limits if the vendor has any employees.
- b. Professional Liability or Errors and Omissions coverage of \$1,000,000
- c. Business auto liability coverage with a combined single limit of at least \$500,000.
- d. General Liability coverage of at least \$500,000 per occurrence with the Town of Barrington added as additional insured by endorsement to the extent the vendor's liability policy requires an endorsement to create additional insured coverage.
- e. The general liability coverage and automobile liability shall include endorsements for additional insured, naming the "Town of Barrington", its elected officials, employees, agents and volunteers as an additional insured. The additional insured endorsement shall be attached to the certificate of insurance.
- f. If the firm is unable to meet the above requirements, please provide additional details; and for insurance, provide available coverage levels.

This RFB does not commit the Town of Barrington to paying any costs incurred by the contractor in the submission or presentation of a proposal, or in making the necessary

## **BARRINGTON FIRE & RESCUE TANK TRUCK BID PROPOSAL 2020**

studies for the preparation thereof, Further the Town of Barrington reserves the right to:

- Accept or reject any and all submittals received as a result of this RFB at any time.
- Negotiate with qualified companies.
- Cancel the RFB, in part or in whole, if it is determined to be in the best interest of the town to do so.
- Waive minor irregularities and formalities in the RFB submittals.
- The Town reserves the right to seek clarification, on any point, in any response, at any phase, of the selection process.
- Substantial changes to the requirements of this RFB document shall be made in writing and included with the bidder's documents to the town. Substantial changes shall be approved in writing by the Town.
- Bid price must be guaranteed for 90 days from date of bid opening.
- Bid must be signed by manufacturers representative.

No guarantee of work, financial obligation, or other assurance is made to any respondent of this RFB whether selected or not for the Fire Tanker Remount.



# Chassis Specification

**Prepared for:**  
LARRY DINGEE  
DINGEE MACHINE CO.  
ROUTE 120  
CORNISH, NH 03745  
Phone: 603-542-9682

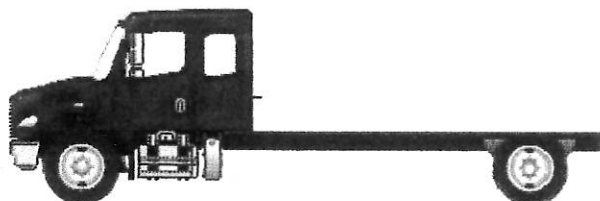
**Prepared by:**  
Bill Wiley  
FREIGHTLINER OF NEW  
HAMPSHIRE, INC.  
165 HEATER ROAD  
LEBANON, NH 03766  
Phone: 603-443-9955

*A proposal for*  
**DINGEE MACHINE CO.**

*Prepared by*  
**FREIGHTLINER OF NEW HAMPSHIRE, INC.**  
*Bill Wiley*

*Feb 24, 2020*

## **Freightliner M2 106**



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

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

Data Code	Description	Weight Front	Weight Rear	Retail Price
<b>Price Level</b>				
PRL-23M	M2 PRL-23M (EFF:01/21/20)			STD
<b>Data Version</b>				
DRL-005	SPECPRO21 DATA RELEASE VER 005			N/C
<b>Vehicle Configuration</b>				
001-172	M2 106 CONVENTIONAL CHASSIS	5,709	3,503	\$103,510.00
004-221	2021 MODEL YEAR SPECIFIED			STD
002-004	SET BACK AXLE - TRUCK			STD
019-002	STRAIGHT TRUCK PROVISION			STD
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)			STD
A85-020	FIRE SERVICE			N/C
A84-1EV	EMERGENCY VEHICLES 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
995-091	MEDIUM TRUCK WARRANTY			STD
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 18000.0 lbs			
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 30000.0 lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 48000.0 lbs			
<b>Truck Service</b>				

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Data Code	Description	Weight Front	Weight Rear	Retail Price
AA3-027	FIRE TANK/PUMPER - MAIN DRIVELINE DRIVEN SPLIT-SHAFT PTO/PUMP			N/C
* AF3-999	CUSTOM MFR'S/BODY TYPE IDENTIFICATION BODY COMPANY WILL BE DINGEE MACHINE CO. IN CORNISH FLAT, NH.			N/C
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in			
<b>Engine</b>				
101-23B	CUM L9 350EV HP @ 2000 RPM, 2200 GOV RPM , 1000 LB/FT @ 1400 RPM	640	30	\$13,596.00
<b>Electronic Parameters</b>				
79A-062	62 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
79P-002	PTO RPM WITH CRUISE SET SWITCH - 700 RPM			N/C
79Q-003	PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM			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
80C-001	ENGINE BRAKE WITH CRUISE CONTROL ENABLED AT 2 MPH ABOVE SET SPEED, 2 MPH INCREMENT BETWEEN BRAKING LEVELS			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-017	2016-2019 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION			STD
99D-012	2008 CARB EMISSION CERTIFICATION - EXEMPTED VEHICLE; NO CLEAN IDLE LABEL REQUIRED			N/C
13E-001	STANDARD OIL PAN			STD
105-001	ENGINE MOUNTED OIL CHECK AND FILL			STD
133-004	ONE PIECE VALVE COVER			STD
014-1BX	SIDE OF HOOD AIR INTAKE WITH NFPA COMPLIANT EMBER SCREEN AND FIRE RETARDANT DONALDSON AIR CLEANER			\$102.00
124-1CC	LN 12V 270 AMP 4949PGH PAD MOUNT ALTERNATOR WITH AC TAPS	10		\$648.00
292-235	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES	10		\$13.00

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Data Code	Description	Weight Front	Weight Rear	Retail Price
290-017	BATTERY BOX FRAME MOUNTED			STD
281-001	STANDARD BATTERY JUMPERS			STD
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB			STD
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		N/C
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	8		\$206.00
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
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR			STD
131-013	AIR COMPRESSOR DISCHARGE LINE			STD
152-039	GVG, FIRE AND EMERGENCY SERVICE VEHICLES ENGINE WARNING			N/C
128-1AN	C-BRAKE BY JACOBS WITH LOW/OFF/HIGH BRAKING DASH SWITCH, ACTIVATES STOP LAMPS	80		\$2,577.00
016-1DC	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES	10	5	\$193.00
28F-007	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND DASH MOUNTED SINGLE REGENERATION REQUEST/INHIBIT SWITCH			N/C
239-001	STANDARD EXHAUST SYSTEM LENGTH			STD
237-022	RH HORIZONTAL TAILPIPE, EXIT FORWARD OF REAR TIRES AT 90 DEGREES	20	20	N/C
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK			STD
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			STD
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			STD
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			STD
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP			STD
273-036	BORG WARNER (KYSOR) REAR AIR ON/OFF ENGINE FAN CLUTCH			N/C

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Data Code	Description	Weight Front	Weight Rear	Retail Price
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED			\$10.00
110-003	CUMMINS SPIN ON FUEL FILTER			STD
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER			N/C
266-013	1100 SQUARE INCH ALUMINUM RADIATOR	70		N/C
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
270-008	AUXILIARY ENGINE COOLING USING WATER FROM FIRE PUMP	10		\$833.00
168-002	LOWER RADIATOR GUARD			STD
138-011	PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER	4		\$92.00
140-022	CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR			\$6.00
134-001	ALUMINUM FLYWHEEL HOUSING			STD
132-004	ELECTRIC GRID AIR INTAKE WARMER			STD
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH			N/C

#### Transmission

342-1KD	ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60	\$9,059.00
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#### Transmission Equipment

343-331	ALLISON VOCATIONAL PACKAGE 198 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL EVS			N/C
84B-003	ALLISON VOCATIONAL RATING FOR FIRE TRUCK/EMERGENCY VEHICLE APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			N/C
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84E-013	S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C

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Data Code	Description	Weight Front	Weight Rear	Retail Price
84F-014	S3 ECONOMY SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84G-014	2200 RPM PRIMARY MODE SHIFT SPEED			N/C
84H-012	2000 RPM SECONDARY MODE SHIFT SPEED			N/C
84J-006	4TH GEAR ENGINE BRAKE PRESELECT RANGE WITH LESS AGGRESSIVE DOWNSHIFT STRATEGY			N/C
84K-002	2ND GEAR ENGINE BRAKE ALTERNATE PRESELECT WITH MODERATE DOWNSHIFT STRATEGY			N/C
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED			STD
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES			STD
84M-001	PUMP MODE INPUT ENABLED 3RD/4TH LOCKUP WIRED ON TCM INPUT AJ/BQ - ALLISON 5TH GEN TRANSMISSIONS			N/C
85B-004	4TH RANGE INDICATION ON TCM OUTPUT C - ALLISON 5TH GEN TRANSMISSIONS			N/C
353-022	VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT BACK OF CAB			\$49.00
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED			\$23.00
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			N/C
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK			STD
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			N/C
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			STD
<b>Front Axle and Equipment</b>				
400-1AB	MFS-18-133A 18,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	250		\$2,517.00
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10		N/C
403-026	FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING			\$45.00



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165 HEATER ROAD  
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Data Code	Description	Weight Front	Weight Rear	Retail Price
419-001	CAST IRON OUTBOARD FRONT BRAKE DRUMS			STD
427-001	FRONT BRAKE DUST SHIELDS	5		\$102.00
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
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS			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-001	ORGANIC SAE 80/90 FRONT AXLE LUBE			STD
<b>Front Suspension</b>				
620-005	18,000# FLAT LEAF FRONT SUSPENSION	290		\$767.00
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION			N/C
410-001	FRONT SHOCK ABSORBERS			\$128.00
<b>Rear Axle and Equipment</b>				
420-064	RS-30-185 31,000# U-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE		300	\$7,228.00
N 421-614	6.14 REAR AXLE RATIO			N/C
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			STD
N 385-004	JACKSHAFT, TEMPORARY DRIVELINE FOR CUSTOMER FURNISHED FIRE PUMP, TEMPORARILY INSTALLED FOR SHIPPING TO CUSTOMER/TEM	40	40	\$877.00
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	20	20	\$499.00
452-001	DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE			\$734.00
878-018	(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE			N/C
87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH			N/C
423-010	MERITOR 16.5X7 P CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, CAST SHOES		20	N/C
433-025	FIRE AND EMERGENCY SEVERE SERVICE NON- ASBESTOS REAR BRAKE LINING			N/C

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Data Code	Description	Weight Front	Weight Rear	Retail Price
434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)			N/C
451-018	WEBB CAST IRON REAR BRAKE DRUMS		50	N/C
425-002	REAR BRAKE DUST SHIELDS		5	\$56.00
440-006	REAR OIL SEALS			STD
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS			STD
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS			\$44.00
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE			(\$134.00)
<b>Rear Suspension</b>				
622-1DG	31,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD FOR FIRE/EMERGENCY SERVICE		180	(\$538.00)
621-001	SPRING SUSPENSION - NO AXLE SPACERS			N/C
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			N/C
623-005	FORE/AFT CONTROL RODS			N/C
<b>Brake System</b>				
018-002	AIR BRAKE PACKAGE			STD
490-121	WABCO 4S/4M ABS WITH TRACTION CONTROL			\$166.00
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
479-005	AIR DRYER MOUNTED INBOARD ON RH RAIL			N/C
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
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS			STD
<b>Trailer Connections</b>				
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT			STD

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Data Code	Description	Weight Front	Weight Rear	Retail Price
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT			STD
<b>Wheelbase &amp; Frame</b>				
545-597	5975MM (235 INCH) WHEELBASE			N/C
546-102	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI	420	290	\$1,544.00
552-063	2550MM (100 INCH) REAR FRAME OVERHANG			N/C
55W-009	FRAME OVERHANG RANGE: 91 INCH TO 100 INCH	-50	210	N/C
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 144.1 in			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 141.1 in			
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 240.02 in			N/C
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 143.86 in			
553-001	SQUARE END OF FRAME			STD
550-001	FRONT CLOSING CROSSMEMBER			STD
559-003	LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER	-12		\$48.00
561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION			STD
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)			STD
572-001	STANDARD REARMOST CROSSMEMBER			STD
565-001	STANDARD SUSPENSION CROSSMEMBER			STD
<b>Chassis Equipment</b>				
556-1AR	THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS	30		\$370.00
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15		\$74.00
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE			STD
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS			STD
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS			STD
970-039	TANK BODY 1501 TO 3000 GALLONS			N/C

#### Fuel Tanks

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Data Code	Description	Weight Front	Weight Rear	Retail Price
204-192	50 GALLON/189 LITER RECTANGULAR ALUMINUM FUEL TANK - LH	20		\$115.00
218-005	RECTANGULAR FUEL TANK(S)			STD
215-004	POLISHING OF FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			\$99.00
212-007	FUEL TANK(S) FORWARD			STD
664-004	POLISHED STAINLESS STEEL STEP FINISH			\$273.00
205-001	FUEL TANK CAP(S)			(\$6.00)
122-1J1	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR, HAND PRIMER AND 12 VOLT PREHEATER"	-5		\$59.00
216-020	EQUIFLO INBOARD FUEL SYSTEM			STD
11F-998	NO NATURAL GAS VEHICLE FUEL TANK VENT LINE/STACK			STD
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			STD
<b>Tires</b>				
093-1RJ	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES	100		\$474.00
094-1C1	MICHELIN XDN2 GRIP 315/80R22.5 20 PLY RADIAL REAR TIRES		240	\$1,372.00
<b>Hubs</b>				
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS			STD
450-014	WEBB IRON REAR HUBS		70	N/C
<b>Wheels</b>				
502-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM FRONT WHEELS	-28		\$482.00
505-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM REAR WHEELS		-56	\$964.00
524-001	POLISHED FRONT WHEELS; OUTSIDE ONLY			\$28.00
525-001	POLISHED REAR WHEELS; OUTSIDE OF OUTER WHEELS ONLY			\$60.00
50T-998	NO FRONT AXLE WHEEL/HUB COVER			STD
496-011	FRONT WHEEL MOUNTING NUTS			STD
497-011	REAR WHEEL MOUNTING NUTS			STD
498-011	NYLON WHEEL GUARDS FRONT AND REAR ALL INTERFACES			\$29.00
<b>Cab Exterior</b>				
829-075	132 INCH BBC HIGH-ROOF EXTENDED ALUMINUM CONVENTIONAL CAB	200	50	\$7,297.00

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Data Code	Description	Weight Front	Weight Rear	Retail Price
650-008	AIR CAB MOUNTING			\$97.00
754-008	2-1/2 INCH FENDER EXTENSIONS	10		\$275.00
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT			\$54.00
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE			\$159.00
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE			\$43.00
644-004	FIBERGLASS HOOD			STD
690-002	TUNNEL/FIREWALL LINER			\$32.00
727-1B1	DUAL 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR HORNS WITH DUAL LANYARDS	8		\$488.00
726-001	SINGLE ELECTRIC HORN			STD
728-002	DUAL HORN SHIELDS			N/C
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			STD
78G-002	KEY QUANTITY OF 2			STD
575-001	REAR LICENSE PLATE MOUNT END OF FRAME			STD
312-038	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL			N/C
302-047	LED AERODYNAMIC MARKER LIGHTS			\$34.00
294-094	OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH SEPARATE STOP/TAIL WIRES TO 7 FEET BEYOND END OF FRAME		-5	(\$52.00)
300-015	STANDARD FRONT TURN SIGNAL LAMPS			STD
469-998	NO WORK LIGHT			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
677-055	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER			\$81.00
768-043	63X14 INCH TINTED REAR WINDOW			STD
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS			STD
654-003	MANUAL DOOR WINDOW REGULATORS			STD
767-047	20X23 INCH LH AND RH TINTED SIDE WINDOWS			N/C
663-013	1-PIECE SOLAR GREEN GLASS WINDSHIELD			STD

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Data Code	Description	Weight Front	Weight Rear	Retail Price
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED			STD
<b>Cab Interior</b>				
707-1AM	OPAL GRAY CLOTH INTERIOR			STD
706-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR			\$17.00
708-026	MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR			\$26.00
772-006	BLACK MATS WITH SINGLE INSULATION			STD
691-008	FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING			STD
694-010	IN DASH STORAGE BIN			STD
742-007	(2) CUP HOLDERS LH AND RH DASH			STD
680-006	GRAY/CHARCOAL FLAT DASH			STD
860-004	SMART SWITCH EXPANSION MODULE			\$198.00
700-002	HEATER, DEFROSTER AND AIR CONDITIONER			STD
701-008	STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE			\$27.00
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			STD
170-045	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES AT SUPPLY LINES ONLY			\$16.00
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
324-046	DOOR ACTIVATED DOME/RED MAP LIGHTS, FORWARD LH AND RH AND REAR CENTER			N/C
655-001	CAB DOOR LATCHES WITH MANUAL DOOR LOCKS			STD
284-101	(1) 12V POWER SUPPLY (1) DUAL 2.1 AMP USB CHARGER IN DASH			\$87.00
756-1E7	SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT WITH NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR	50		\$566.00

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Data Code	Description	Weight Front	Weight Rear	Retail Price
760-1E9	SEATS INC 911 UNIVERSAL SERIES SCBA NON SUSPENSION PASSENGER SEAT WITH UNDERSEAT STORAGE AND NFPA 1901- 2009/2016 COMPLIANT SEAT SENSOR	40	15	\$545.00
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS			STD
758-023	GRAY VINYL DRIVER SEAT COVER WITH GRAY CORDURA CLOTH BOLSTER AND HEADREST			N/C
761-022	GRAY VINYL FRONT PASSENGER SEAT COVER WITH GRAY CORDURA CLOTH BOLSTER AND HEADREST			N/C
763-105	NFPA 1901-2009 HIGH VISIBILITY ORANGE SEAT BELTS			\$132.00
532-001	FIXED STEERING COLUMN			STD
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL			STD
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			STD
67E-998	NO ENTRY/ACCESS/STEP WIRING			STD
<b>Instruments &amp; Controls</b>				
732-004	GRAY DRIVER INSTRUMENT PANEL			STD
734-004	GRAY CENTER INSTRUMENT PANEL			STD
87L-001	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK			N/C
870-001	BLACK GAUGE BEZELS			STD
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM			STD
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES			STD
198-025	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS			STD
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL			STD
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			STD
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			STD
844-001	2 INCH ELECTRIC FUEL GAUGE			STD
148-073	ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE			\$88.00



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<b>Design</b>				
065-000	PAINT: ONE SOLID COLOR			STD
<b>Color</b>				
980-2L4	CAB COLOR A: L2225EY CANDY APPLE RED ELITE EY			N/C
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS 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
<b>Secondary Factory Options</b>				
95M-998	NO CUSTOMER FURNISHED MATERIAL SPECIFIED			STD
<b>Raw Performance Data</b>				
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 365.03			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 141.1 in			
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 143.86 in			
<b>Sales Programs</b>				
	NO SALES PROGRAMS HAVE BEEN SELECTED			

## TOTAL VEHICLE SUMMARY

### Adjusted List Price

### Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight <sup>+</sup>	8275 lbs	5047 lbs	13322 lbs
Total Weight <sup>+</sup>	8275 lbs	5047 lbs	13322 lbs

Application Version 11.2.200  
 Data Version PRL-23M.005  
 BARRINGTON 350



02/24/2020 4:46 PM

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## ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE

### Other Factory Charges

RAG-020	CUMMINS TARIFF CHARGE - \$205	\$205.00
P73-2FT	STANDARD DESTINATION CHARGE	\$2,200.00

(+) 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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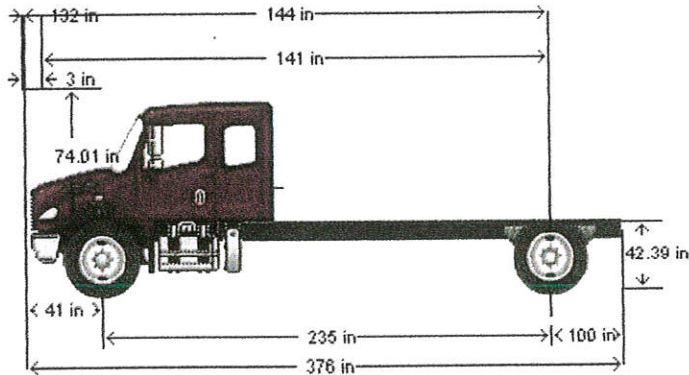
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163-001	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB			N/C
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			STD
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE			STD
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			STD
49B-004	ELECTRONIC STABILITY CONTROL			\$1,134.00
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			STD
679-001	OVERHEAD INSTRUMENT PANEL			N/C
35M-004	SMARTPLEX HUB MODULE WITH OVERHEAD SWITCH MOUNTING, CENTER CONSOLE (12 SWITCH SLOTS, NO CB)	44		\$1,367.00
786-119	NFPA VEHICLE DATA RECORDER AND SEATBELT DISPLAY			\$1,008.00
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			N/C
44R-008	8 ON/OFF LATCHING SMARTPLEX SWITCHES			\$100.00
44W-200	2-RED, 0-AMBER, 0-GREEN SMARTPLEX INDICATOR LAMPS			\$23.00
264-032	(2) OVERHEAD MOUNTED LANYARD CONTROLS: (1) OFFICER AIR HORN AND (1) DRIVER AIR HORN			\$105.00
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			STD
660-025	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY PROGRAMMED TO SLOWEST SPEED WITH PARK BRAKE SET			\$22.00
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH			STD
882-018	ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR			\$111.00
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE			STD
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS			STD

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 FREIGHTLINER OF NEW  
 HAMPSHIRE, INC.  
 165 HEATER ROAD  
 LEBANON, NH 03766  
 Phone: 603-443-9955

## D I M E N S I O N S



### VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model .....	M2106
Wheelbase (545) .....	5975MM (235 INCH) WHEELBASE
Rear Frame Overhang (552) .....	2550MM (100 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) .....	132 INCH BBC HIGH-ROOF EXTENDED ALUMINUM CONVENTIONAL CAB
Sleeper (682) .....	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016) .....	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES

### TABLE SUMMARY - DIMENSIONS

Prepared for:  
 LARRY DINGEE  
 DINGEE MACHINE CO.  
 ROUTE 120  
 CORNISH, NH 03745  
 Phone: 603-542-9682

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Dimensions	Inches
Bumper to Back of Cab (BBC)	131.9
Bumper to Centerline of Front Axle (BA)	40.7
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	144.1
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	141.1
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
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	244.5
Cab Height (CH)	74.0
Wheelbase (WB)	235.2
Frame Overhang (OH)	100.4
Overall Length (OAL)	376.4
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	42.4

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



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## GVWR

### VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model .....	M2106
Cab Size (829) .....	132 INCH BBC HIGH-ROOF EXTENDED ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs) .....	18000.0
Expected Pusher Axle(s) Load (lbs) .....	0.0
Expected Rear Axle(s) Load (lbs) .....	30000.0
Expected Tag Axle(s) Load (lbs) .....	0.0
Expected GVW (lbs) .....	48000
Expected GCW (lbs) .....	0.0
Front Axle (400) .....	MFS-18-133A 18,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE
Front Suspension (620) .....	18,000# FLAT LEAF FRONT SUSPENSION
Front Hubs (418) .....	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502) .....	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM FRONT WHEELS
Front Tires (093) .....	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES
Front Brakes (402) .....	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536) .....	TRW TAS-85 POWER STEERING
Rear Axle (420) .....	RS-30-185 31,000# U-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE
Rear Suspension (622) .....	31,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD FOR FIRE/EMERGENCY SERVICE
Rear Hubs (450) .....	WEBB IRON REAR HUBS
Rear Disc Wheels (505) .....	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM REAR WHEELS
Rear Tires (094) .....	MICHELIN XDN2 GRIP 315/80R22.5 20 PLY RADIAL REAR TIRES
Rear Brakes (423) .....	MERITOR 16.5X7 P CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, CAST SHOES
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

### TABLE SUMMARY - GVWR

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	Front	Rear
<b>Axle Component Weight Ratings</b>		
Axles	18000	31000
Suspension	18000	31000
Hubs	23000	31000
Brakes	21500	31500
Wheels	20000	40000
Tires	18180	33080
Power Steering	18000	N/A
GAWR (per axle)	18000	31000
GAWR (per axle system)	18000	31000
Expected Load (per axle system)	18000	30000
<b>Vehicle GVWR Summary</b>		
Calculated GVWR	49000	
Expected GVWR	48000	
All weights displayed in pounds		

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



