



# **NORTHEASTERN FIRE**

## **FIRE APPARATUS SPECIALISTS**

**P.O. Box 387 Cheshire, CT | (203) 217-5809 | [nefa@cox.net](mailto:nefa@cox.net)**

February 27, 2020

Barrington Fire Department

Barrington, NH

### **PROPOSAL FOR REWORK OF BARRINGTON FIRE DEPARTMENT TANKER**

Scope to include providing a new Freightliner M2-106 single axle chassis, removal of existing poly tanker water tank/ body and mounting it on new chassis with new split shaft midship fire pump. New LED warning lights and cab lettering shall be provided. Work to include:

2020 Freightliner M2-106 2 door with cab extension, Cummins L9 350 HP, C brake, Allison EVS 3000 automatic transmission, 30,000 lb. rear axle, aux. helper springs, locking differential, aluminum wheels, M&S tires, 270 amp alternator, air ride driver seat, single passenger seat with rear SCBA access, trimmed battery box and factory fuel tank, battery disconnect switch, chrome bumper, heated mirrors, air horns, grab handles, chrome axle nut covers, etc.

Ready new chassis for service- Install wiring backbone and power distribution studs, wire Whelen Freedom NFPA lightbar on roof with forward scene lighting capability. Install Whelen M6 warning lights, 2 on side of hood and 2 on grille. Install switch matrix in cab as directed by FD. Wire seatbelt switch alarm system, install Whelen electronic siren and bumper mounted speaker, install and wire auto eject electric outlet and battery conditioner and auto eject air inlet plumbed to chassis air. Cab shall be lettered with gold vinyl to match existing apparatus.

Remove pump plumbing from water tank to facilitate water tank removal, remove hosebed dividers and hosebed floor, water level indicator, dump and fill valves, remove tank and inspect. Rinse out inside of tank through tank floor sump.

Remove electrical connections and air lines that control dump valves and chutes. Un-bolt body subframe and prepare poly body for removal. Hoist body off old chassis. Wash heavy dirt off with pressure washer. Update body stop-tail- turn lights and ICC lights with new Whelen M6 light cluster bezel. Install new beacons high on rear of body. Install new LED ground lights under apparatus body switched from cab and compartment lighting. Four Whelen M9 12 volt scene lights shall be installed on body, one each side and two on rear switched in cab. Add one aluminum adjustable shelf and one floor mounted 600lb slide out tray as directed by purchaser.



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Install Hale MG 1000 GPM single stage split shaft fire pump on new chassis and connect associated wiring and controls to chassis. Remove existing driveshaft and have reworked/balanced to couple to driveline. Install air pump shift and associated plumbing to accessory air tanks. Fabricate hose containment system to protect crosslay hose from deployment. The remaining area next to crosslays (dunnage area) shall serve as storage area for long handle tools and equipment. Exact size to be determined by FD and NEFA after layout of chassis wheelbase, etc.

Hale module pump house shall service two 1.75" crosslays plumbed 2". There shall be a 2.5" discharge on the left side and a 3" discharge on the right side terminated with a 3" x storz adapter and blind cap. Each discharge shall have a 2.5" gauge with T handle control, bleeder and chrome cap as needed.

Intakes shall be 6" NST, one on each side. A 2.5" gated inlet shall be provided on the left side operators panel.

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

Apparatus body shall be installed on new chassis. New isolators and tank rubber shall be installed as needed prior to water tank installation. Hose bed wall shall be raised if needed to accommodate additional hose bed capacity as mutual agreed upon by NEFA and FD based upon weight capacity of chassis. A D&S hose bed cover will be fitted over the top for securing hose load with a fitted rear chevron flap.

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

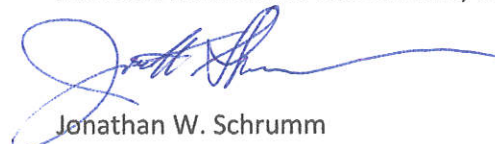
All connections made and unit tested for service intended and readied for service.

Price: \$ 227,500.00 Price good for 90 days. Terms: Chassis payment due upon completion. Balance upon completion.

If you have any questions please do not hesitate to contact us.

Respectfully,

NORTHEASTERN FIRE ASSOCIATES, INC.



Jonathan W. Schrumm





**TOWN OF BARRINGTON**  
NEW HAMPSHIRE

Fire Department

**2020 Tank Truck Bid Proposal**

**CONTRACTOR INFORMATION**

Contractor's Name: NORTHEASTERN FIRE ASSOCIATES, INC.  
Contact Person: JONATHAN SCHROUM  
Mailing Address: 128 BLACKS ROAD, CHESHIRE, CT 06410  
Phone Number: 203-272-9228 Email: nefa@cox.net

**Proposal**

Additional information: \_\_\_\_\_

WE HOPE WE MAY BE OF SERVICE TO  
YOUR COMMUNITY!

**References (provide at least 3)**

| Name/Contact Name | Phone Number | Year(s)  |
|-------------------|--------------|----------|
| DURHAM, NH        | 603-862-7733 | 15 YEARS |
| WEST REDDING, CT  | 203-470-5000 | 20 YEARS |
| NORTHWOOD, NH     | 603-942-9103 | 5 YEARS  |
| LEE, NH           | 603-659-5411 | 20 YEARS |
| MADBURY, NH       | 603-742-1164 | 5 YEARS  |

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: JONATHAN SCHROUM, PRESIDENT

Signature: [Signature] Date: 4/27/2020

**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 \$ 227,500.00 Estimated delivery date 6 months.

**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 \$ AS PER TERMS Estimated delivery date \_\_\_\_\_

**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 \$ 114,494.00 Estimated delivery date 4 months.

**Option 4:**

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

Total price for option 4 \$ <1,500.00> Estimated delivery date TBD



**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 \$ N/A WILL PROVIDE PAINT CHIP  
SAMPLE TO ~~INSURE~~ ENSURE COLOR MATCH.

**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

Bids shall be submitted in a sealed envelope clearly marked 2020 Fire Tanker Bid and include Pages 5 & 6 of this document along with the signed Contractor Information page.

Bids may be hand delivered to:

Barrington Town Hall  
333 Calef Hwy.  
Barrington NH 03825

Or mailed to:

Town of Barrington  
PO Box 660  
Barrington NH 03825

Bids must be in the possession of the Barrington Town Offices by 3 pm on Monday March 2, 2020. Bids received after that date and time shall not be accepted.

Bid opening to take place Monday March 2, 2020 at 3:30pm at the Barrington Town Office 333 Calef Hwy. Barrington NH. 03825.

Bid award shall be made during the public portion of the Barrington Select-board meeting on either March 9<sup>th</sup>, 2020 or March 23<sup>rd</sup>, 2020.

Prepared for:  
Jon Schrumm  
North Eastern Fire Associates  
128 Blacks Road  
Cheshire, CT 06410  
Phone: 203-272-9228  
Mobile: 203-217-5809  
E-Mail: nefa@cox.net



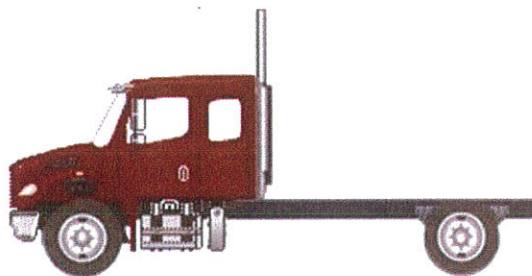
Prepared by:  
Greg Martinotti  
FREIGHTLINER OF HARTFORD  
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*A proposal for  
North Eastern Fire Associates*

*Prepared by  
FREIGHTLINER OF HARTFORD  
Greg Martinotti*

*Feb 14, 2020*

**Freightliner M2 106  
Barrington Fire Safety**



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

2WD Extended Cab - Barrington Fire  
Safety



02/14/2020 7:49 AM

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## SPECIFICATION PROPOSAL

|                              | Description   | Weight<br>Front | Weight<br>Rear |
|------------------------------|---|-----------------|----------------|
| <b>Vehicle Configuration</b> |   |                 |                |
|                              | M2 106 CONVENTIONAL CHASSIS   | 5,709           | 3,503          |
| <b>EXCEED</b>                | 2021 MODEL YEAR SPECIFIED   |                 |                |
|                              | SET BACK AXLE - TRUCK   |                 |                |
|                              | STRAIGHT TRUCK PROVISION  |                 |                |
|                              | LH PRIMARY STEERING LOCATION  |                 |                |
| <b>General Service</b>       |   |                 |                |
|                              | TRUCK CONFIGURATION   |                 |                |
|                              | DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)                              |                 |                |
|                              | RESCUE AND EMERGENCY SERVICE  |                 |                |
|                              | GOVERNMENT BUSINESS SEGMENT   |                 |                |
|                              | LIQUID BULK COMMODITY   |                 |                |
|                              | TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS                 |                 |                |
|                              | MAXIMUM 8% EXPECTED GRADE   |                 |                |
|                              | SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE |                 |                |
|                              | MEDIUM TRUCK WARRANTY   |                 |                |
|                              | EXPECTED FRONT AXLE(S) LOAD: 18000.0 lbs.   |                 |                |
|                              | EXPECTED REAR DRIVE AXLE(S) LOAD: 27120.0 lbs.  |                 |                |
|                              | EXPECTED GROSS VEHICLE WEIGHT CAPACITY: 45120.0 lbs.                                      |                 |                |
| <b>Truck Service</b>         |   |                 |                |
|                              | TANK BODY   |                 |                |
|                              | EXPECTED TRUCK BODY LENGTH: 14.6 ft   |                 |                |
|                              | EXPECTED TRUCK BODY WIDTH: 102.0 in   |                 |                |
|                              | EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES: 32.0 in                          |                 |                |
| <b>Engine</b>                |   |                 |                |
| <b>DEVIATE</b>               | CUM L9 350EV HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM                           | 640             | 30             |
| <b>Electronic Parameters</b> |   |                 |                |
|                              | 74 MPH ROAD SPEED LIMIT   |                 |                |





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|                         | Description  | Weight<br>Front | Weight<br>Rear |
|-------------------------|--|-----------------|----------------|
|                         | CRUISE CONTROL SPEED LIMIT SAME AS ROAD<br>SPEED LIMIT   |                 |                |
|                         | PTO MODE ENGINE RPM LIMIT - 1100 RPM   |                 |                |
|                         | PTO RPM WITH CRUISE SET SWITCH - 700 RPM   |                 |                |
|                         | PTO RPM WITH CRUISE RESUME SWITCH - 700<br>RPM   |                 |                |
|                         | PTO MODE CANCEL VEHICLE SPEED - 5 MPH  |                 |                |
|                         | PTO GOVERNOR RAMP RATE - 250 RPM PER<br>SECOND   |                 |                |
|                         | PTO MINIMUM RPM - 700  |                 |                |
|                         | REGEN INHIBIT SPEED THRESHOLD - 5 MPH  |                 |                |
| <b>Engine Equipment</b> |  |                 |                |
|                         | 2016-2019 ONBOARD DIAGNOSTICS/2010<br>EPA/CARB/FINAL GHG17 CONFIGURATION   |                 |                |
| <b>EXCEED</b>           | 2008 CARB EMISSION CERTIFICATION - CLEAN<br>IDLE (INCLUDES 6X4 INCH LABEL ON LOWER<br>FORWARD CORNER OF DRIVER DOOR) |                 |                |
|                         | STANDARD OIL PAN   |                 |                |
|                         | ENGINE MOUNTED OIL CHECK AND FILL  |                 |                |
|                         | ONE PIECE VALVE COVER  |                 |                |
| <b>EXCEED</b>           | SIDE OF HOOD AIR INTAKE WITH NFPA<br>COMPLIANT EMBER SCREEN AND FIRE<br>RETARDANT DONALDSON AIR CLEANER              |                 |                |
|                         | DR 12V 275 AMP 40-SI BRUSHLESS PAD<br>ALTERNATOR WITH REMOTE BATTERY<br>VOLTAGE SENSE                                | 10              |                |
|                         | (2) DTNA GENUINE, FLOODED STARTING, MIN<br>2000CCA, 370RC, THREADED STUD BATTERIES                                   | 10              |                |
|                         | BATTERY BOX FRAME MOUNTED  |                 |                |
|                         | STANDARD BATTERY JUMPERS   |                 |                |
|                         | SINGLE BATTERY BOX FRAME MOUNTED LH<br>SIDE UNDER CAB  |                 |                |
|                         | WIRE GROUND RETURN FOR BATTERY CABLES<br>WITH ADDITIONAL FRAME GROUND RETURN   |                 |                |
|                         | NON-POLISHED BATTERY BOX COVER   |                 |                |
|                         | CAB AUXILIARY POWER CABLE  | 5               |                |
|                         | POSITIVE LOAD DISCONNECT WITH CAB<br>MOUNTED CONTROL SWITCH MOUNTED<br>OUTBOARD DRIVER SEAT                          | 8               |                |
| <b>EXCEED</b>           | POSITIVE AND NEGATIVE POSTS FOR<br>JUMPSTART LOCATED ON FRAME NEXT TO<br>STARTER                                     | 2               |                |



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|               | Description   | Weight<br>Front | Weight<br>Rear |
|---------------|---|-----------------|----------------|
|               | CUMMINS TURBOCHARGED 18.7 CFM AIR<br>COMPRESSOR WITH INTERNAL Safety VALVE<br>STANDARD MECHANICAL AIR COMPRESSOR<br>GOVERNOR<br>AIR COMPRESSOR DISCHARGE LINE<br>GVG, FIRE AND EMERGENCY SERVICE<br>VEHICLES ENGINE WARNING   |                 |                |
|               | C-BRAKE BY JACOBS WITH LOW/OFF/HIGH<br>BRAKING DASH SWITCH  | 80              |                |
| <b>EXCEED</b> | RH OUTBOARD UNDER STEP MOUNTED<br>HORIZONTAL AFTERTREATMENT SYSTEM<br>ASSEMBLY WITH RH C-PILLAR MOUNTED<br>VERTICAL TAILPIPE  | 30              | 25             |
|               | ENGINE AFTERTREATMENT DEVICE,<br>AUTOMATIC OVER THE ROAD REGENERATION<br>AND DASH MOUNTED REGENERATION<br>REQUEST SWITCH  |                 |                |
| <b>EXCEED</b> | 10 FOOT 06 INCH (126 INCH+0/-5.9 INCH)<br>EXHAUST SYSTEM HEIGHT   |                 |                |
| <b>EXCEED</b> | RH CURVED VERTICAL TAILPIPE C-PILLAR<br>MOUNTED ROUTED FROM STEP<br>6 GALLON DIESEL EXHAUST FLUID TANK<br>100 PERCENT DIESEL EXHAUST FLUID FILL<br>LH UNDER CAB DIESEL EXHAUST FLUID TANK<br>LOCATION<br>STANDARD DIESEL EXHAUST FLUID PUMP<br>MOUNTING<br>STANDARD DIESEL EXHAUST FLUID TANK CAP |                 |                |
| <b>EXCEED</b> | STAINLESS STEEL AFTERTREATMENT<br>DEVICE/MUFFLER/TAIPIPE SHIELD<br>HORTON DRIVEMASTER ADVANTAGE ON/OFF<br>FAN DRIVE   |                 |                |
| <b>EXCEED</b> | AUTOMATIC FAN CONTROL WITH DASH<br>SWITCH AND INDICATOR LIGHT, NON-ENGINE<br>MOUNTED<br>CUMMINS SPIN ON FUEL FILTER<br>COMBINATION FULL FLOW/BYPASS OIL FILTER  |                 |                |
| <b>EXCEED</b> | FLEETGUARD PLAIN COOLANT FILTER<br>1100 SQUARE INCH ALUMINUM RADIATOR<br>ANTIFREEZE TO -34F, OAT (NITRITE AND<br>SILICATE FREE) EXTENDED LIFE COOLANT<br>GATES BLUE STRIPE COOLANT HOSES OR<br>EQUIVALENT   | 70              |                |



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|                               | Description  | Weight<br>Front | Weight<br>Rear |
|-------------------------------|--|-----------------|----------------|
|                               | CONSTANT TENSION HOSE CLAMPS FOR<br>COOLANT HOSES  |                 |                |
|                               | RADIATOR DRAIN VALVE   |                 |                |
|                               | LOWER RADIATOR GUARD   |                 |                |
| <b>EXCEED</b>                 | PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK<br>HEATER  | 4               |                |
| <b>EXCEED</b>                 | CHROME ENGINE HEATER RECEPTACLE<br>MOUNTED UNDER LH DOOR   |                 |                |
|                               | ALUMINUM FLYWHEEL HOUSING  |                 |                |
|                               | ELECTRIC GRID AIR INTAKE WARMER  |                 |                |
| <b>EXCEED</b>                 | DELCO 12V 39MT HD/OCP STARTER WITH<br>THERMAL PROTECTION AND INTEGRATED<br>MAGNETIC SWITCH                                   | 15              |                |
| <b>Transmission</b>           |  |                 |                |
|                               | ALLISON 3000 EVS AUTOMATIC TRANSMISSION<br>WITH PTO PROVISION  | 200             | 60             |
| <b>Transmission Equipment</b> |  |                 |                |
|                               | ALLISON VOCATIONAL PACKAGE 170 -<br>AVAILABLE ON 3000/4000 PRODUCT FAMILIES<br>WITH VOCATIONAL MODEL RDS AND EVS             |                 |                |
|                               | ALLISON VOCATIONAL RATING FOR FIRE<br>TRUCK/EMERGENCY VEHICLE APPLICATIONS<br>AVAILABLE WITH ALL PRODUCT FAMILIES            |                 |                |
|                               | PRIMARY MODE GEARS, LOWEST GEAR 1,<br>START GEAR 1, HIGHEST GEAR 6, AVAILABLE<br>FOR 3000/4000 PRODUCT FAMILIES ONLY         |                 |                |
|                               | SECONDARY MODE GEARS, LOWEST GEAR 1,<br>START GEAR 1, HIGHEST GEAR 6, AVAILABLE<br>FOR 3000/4000 PRODUCT FAMILIES ONLY       |                 |                |
|                               | S1 PERFORMANCE PRIMARY SHIFT SCHEDULE,<br>AVAILABLE FOR 3000/4000 PRODUCT FAMILIES<br>ONLY                                   |                 |                |
|                               | S1 PERFORMANCE SECONDARY SHIFT<br>SCHEDULE, AVAILABLE FOR 3000/4000<br>PRODUCT FAMILIES ONLY                                 |                 |                |
|                               | 2100 RPM PRIMARY MODE SHIFT SPEED  |                 |                |
|                               | 2100 RPM SECONDARY MODE SHIFT SPEED  |                 |                |
|                               | ENGINE BRAKE RANGE PRESELECT<br>RECOMMENDED BY DTNA AND ALLISON, THIS<br>DEFINED BY ENGINE AND VOCATIONAL USAGE              |                 |                |
|                               | ENGINE BRAKE RANGE ALTERNATE<br>PRESELECT RECOMMENDED BY DTNA AND<br>ALLISON, THIS DEFINED BY ENGINE AND<br>VOCATIONAL USAGE |                 |                |





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|        | Description  | Weight<br>Front | Weight<br>Rear |
|--------|--|-----------------|----------------|
|        | FUEL SENSE 2.0 DISABLED - PERFORMANCE -<br>TABLE BASED                                 |                 |                |
|        | DRIVER SWITCH INPUT - DEFAULT - NO<br>SWITCHES   |                 |                |
|        | MAXIMUM ENGINE SPEED FOR PTO<br>ENGAGEMENT 700 RPM                                     |                 |                |
|        | MAXIMUM ENGINE SPEED FOR PTO<br>OPERATION 1400 RPM                                     |                 |                |
|        | MAXIMUM OUTPUT SPEED FOR PTO<br>ENGAGEMENT 2600 RPM - ALLISON 5TH GEN<br>TRANSMISSIONS |                 |                |
|        | MAXIMUM OUTPUT SPEED FOR PTO<br>OPERATION 2600 RPM - ALLISON 5TH GEN<br>TRANSMISSIONS  |                 |                |
| EXCEED | VEHICLE INTERFACE WIRING CONNECTOR<br>WITH BLUNT CUTS, AT BACK OF CAB                  |                 |                |
| EXCEED | ELECTRONIC TRANSMISSION CUSTOMER<br>ACCESS CONNECTOR FIREWALL MOUNTED                  |                 |                |
|        | CUSTOMER INSTALLED CHELSEA 280 SERIES<br>PTO   |                 |                |
|        | PTO MOUNTING, RH SIDE OF MAIN<br>TRANSMISSION  |                 |                |
|        | MAGNETIC PLUGS, ENGINE DRAIN,<br>TRANSMISSION DRAIN, AXLE(S) FILL AND<br>DRAIN         |                 |                |
|        | PUSH BUTTON ELECTRONIC SHIFT CONTROL,<br>DASH MOUNTED                                  |                 |                |
|        | TRANSMISSION PROGNOSTICS - ENABLED 2013  |                 |                |
|        | WATER TO OIL TRANSMISSION COOLER, IN<br>RADIATOR END TANK                              |                 |                |
|        | TRANSMISSION OIL CHECK AND FILL WITH<br>ELECTRONIC OIL LEVEL CHECK                     |                 |                |
|        | SYNTHETIC TRANSMISSION FLUID (TES-295<br>COMPLIANT)                                    |                 |                |

### Front Axle and Equipment

|        |   |     |
|--------|---|-----|
|        | DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74<br>DROP SINGLE FRONT AXLE               | 190 |
|        | MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT<br>BRAKES, DOUBLE ANCHOR, FABRICATED<br>SHOES | 10  |
|        | FIRE AND EMERGENCY SEVERE SERVICE,<br>NON-ASBESTOS FRONT LINING                       |     |
|        | CAST IRON OUTBOARD FRONT BRAKE DRUMS  |     |
| EXCEED | FRONT BRAKE DUST SHIELDS  | 5   |

2WD Extended Cab - Barrington Fire  
 Safety



02/14/2020 7:49 AM

Page 6 of 20

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|                                | Description  | Weight<br>Front | Weight<br>Rear |
|--------------------------------|--|-----------------|----------------|
|                                | FRONT OIL SEALS  |                 |                |
|                                | VENTED FRONT HUB CAPS WITH WINDOW,<br>CENTER AND SIDE PLUGS - OIL                                |                 |                |
|                                | STANDARD SPINDLE NUTS FOR ALL AXLES  |                 |                |
|                                | MERITOR AUTOMATIC FRONT SLACK<br>ADJUSTERS   |                 |                |
|                                | TRW TAS-85 POWER STEERING  | 40              |                |
|                                | POWER STEERING PUMP  |                 |                |
|                                | 2 QUART SEE THROUGH POWER STEERING<br>RESERVOIR  |                 |                |
| <b>EXCEED</b>                  | OIL/AIR POWER STEERING COOLER  | 5               |                |
| <b>EXCEED</b>                  | SYNTHETIC 75W-90 FRONT AXLE LUBE   |                 |                |
| <b>Front Suspension</b>        |  |                 |                |
|                                | 18,000# TAPERLEAF FRONT SUSPENSION   | 200             |                |
| <b>EXCEED</b>                  | MAINTENANCE FREE RUBBER BUSHINGS -<br>FRONT SUSPENSION   |                 |                |
|                                | FRONT SHOCK ABSORBERS  |                 |                |
| <b>Rear Axle and Equipment</b> |  |                 |                |
| <b>EXCEED</b>                  | RS-30-185 31,000# U-SERIES FIRE/EMERGENCY<br>SERVICE SINGLE REAR AXLE                            |                 | 300            |
|                                | 5.63 REAR AXLE RATIO   |                 |                |
|                                | IRON REAR AXLE CARRIER WITH STANDARD<br>AXLE HOUSING   |                 |                |
|                                | MXL 176T MERITOR EXTENDED LUBE MAIN<br>DRIVELINE WITH HALF ROUND YOKES                           | 5               | 5              |
|                                | DRIVER CONTROLLED TRACTION<br>DIFFERENTIAL - SINGLE REAR AXLE                                    |                 |                |
|                                | (1) DRIVER CONTROLLED DIFFERENTIAL LOCK<br>REAR VALVE FOR SINGLE DRIVE AXLE                      |                 |                |
|                                | BLINKING LAMP WITH EACH MODE SWITCH,<br>DIFFERENTIAL UNLOCK WITH IGNITION OFF,<br>ACTIVE <25 MPH |                 |                |
|                                | MERITOR 16.5X7 P CAST SPIDER CAM REAR<br>BRAKES, DOUBLE ANCHOR, CAST SHOES                       |                 | 20             |
|                                | FIRE AND EMERGENCY SEVERE SERVICE NON-<br>ASBESTOS REAR BRAKE LINING                             |                 |                |
|                                | BRAKE CAMS AND CHAMBERS ON FORWARD<br>SIDE OF DRIVE AXLE(S)                                      |                 |                |
|                                | WEBB CAST IRON REAR BRAKE DRUMS  |                 | 50             |
| <b>EXCEED</b>                  | REAR BRAKE DUST SHIELDS  |                 | 5              |
|                                | REAR OIL SEALS   |                 |                |



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|                              | Description  | Weight<br>Front | Weight<br>Rear |
|------------------------------|--|-----------------|----------------|
| <b>EXCEED</b>                | WABCO TRISTOP D-IBV LONGSTROKE 1-DRIVE<br>AXLE SPRING PARKING CHAMBERS                               |                 |                |
| <b>EXCEED</b>                | HALDEX AUTOMATIC REAR SLACK ADJUSTERS  |                 |                |
| <b>EXCEED</b>                | SYNTHETIC 75W-90 REAR AXLE LUBE  |                 |                |
| <b>Rear Suspension</b>       |  |                 |                |
| <b>EXCEED</b>                | 31,000# FLAT LEAF SPRING REAR SUSPENSION<br>WITH HELPER AND RADIUS ROD FOR<br>FIRE/EMERGENCY SERVICE |                 | 180            |
|                              | SPRING SUSPENSION - NO AXLE SPACERS  |                 |                |
|                              | STANDARD AXLE SEATS IN AXLE CLAMP<br>GROUP   |                 |                |
|                              | FORE/AFT CONTROL RODS  |                 |                |
| <b>Brake System</b>          |  |                 |                |
|                              | AIR BRAKE PACKAGE  |                 |                |
| <b>EXCEED</b>                | WABCO 4S/4M ABS WITH TRACTION CONTROL  |                 |                |
|                              | REINFORCED NYLON, FABRIC BRAID AND WIRE<br>BRAID CHASSIS AIR LINES                                   |                 |                |
|                              | FIBER BRAID PARKING BRAKE HOSE   |                 |                |
|                              | STANDARD BRAKE SYSTEM VALVES   |                 |                |
|                              | STANDARD AIR SYSTEM PRESSURE<br>PROTECTION SYSTEM  |                 |                |
|                              | STD U.S. FRONT BRAKE VALVE   |                 |                |
|                              | RELAY VALVE WITH 5-8 PSI CRACK PRESSURE,<br>NO REAR PROPORTIONING VALVE                              |                 |                |
| <b>EXCEED</b>                | WABCO SYSTEM SAVER HP WITH INTEGRAL<br>AIR GOVERNOR AND HEATER                                       |                 |                |
| <b>EXCEED</b>                | WABCO OIL COALESCING FILTER FOR AIR<br>DRYER   |                 |                |
|                              | AIR DRYER MOUNTED INBOARD ON RH RAIL   |                 |                |
| <b>EXCEED</b>                | ALUMINUM AIR BRAKE RESERVOIRS  | -5              | -5             |
|                              | CLEAR FRAME RAILS FROM BACK OF CAB TO<br>FRONT REAR SUSPENSION BRACKET, BOTH<br>RAILS OUTBOARD       |                 |                |
|                              | PULL CABLES ON ALL AIR RESERVOIR(S)  |                 |                |
| <b>Trailer Connections</b>   |  |                 |                |
|                              | UPGRADED CHASSIS MULTIPLEXING UNIT   |                 |                |
|                              | UPGRADED BULKHEAD MULTIPLEXING UNIT  |                 |                |
| <b>Wheelbase &amp; Frame</b> |  |                 |                |
|                              | 5075MM (200 INCH) WHEELBASE  |                 |                |





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|                          | Description  | Weight<br>Front | Weight<br>Rear |
|--------------------------|--|-----------------|----------------|
| <b>EXCEED</b>            | 7/16X3-9/16X11-1/8 INCH STEEL FRAME<br>(11.11MMX282.6MM/0.437X11.13 INCH) 120KSI | 210             | 270            |
|                          | 1900MM (75 INCH) REAR FRAME OVERHANG   |                 |                |
|                          | FRAME OVERHANG RANGE: 71 INCH TO 80 INCH   | -20             | 100            |
|                          | CALC'D BACK OF CAB TO REAR SUSP C/L (CA):<br>108.66 in                           |                 |                |
|                          | CALCULATED EFFECTIVE BACK OF CAB TO<br>REAR SUSPENSION C/L (CA): 105.66 in       |                 |                |
|                          | CALC'D FRAME LENGTH - OVERALL: 303.99  |                 |                |
|                          | CALCULATED FRAME SPACE LH SIDE: 99.54 in   |                 |                |
|                          | CALCULATED FRAME SPACE RH SIDE: 204.59 in  |                 |                |
|                          | CALC'D SPACE AVAILABLE FOR DECKPLATE:<br>108.86 in                               |                 |                |
|                          | SQUARE END OF FRAME  |                 |                |
|                          | FRONT CLOSING CROSSMEMBER  |                 |                |
| <b>EXCEED</b>            | LIGHTWEIGHT HEAVY-DUTY ALUMINUM ENGINE<br>CROSSMEMBER                            | -12             |                |
|                          | STANDARD CROSSMEMBER BACK OF<br>TRANSMISSION                                     |                 |                |
|                          | STANDARD MIDSHIP #1 CROSSMEMBER(S)   |                 |                |
|                          | STANDARD REARMOST CROSSMEMBER  |                 |                |
|                          | STANDARD SUSPENSION CROSSMEMBER  |                 |                |
| <b>Chassis Equipment</b> |  |                 |                |
|                          | THREE-PIECE 14 INCH CHROMED STEEL<br>BUMPER WITH COLLAPSIBLE ENDS                | 30              |                |
| <b>EXCEED</b>            | FRONT TOW HOOKS - FRAME MOUNTED  | 15              |                |
|                          | BUMPER MOUNTING FOR SINGLE LICENSE<br>PLATE                                      |                 |                |
|                          | FENDER AND FRONT OF HOOD MOUNTED<br>FRONT MUDFLAPS                               |                 |                |
|                          | GRADE 8 THREADED HEX HEADED FRAME<br>FASTENERS                                   |                 |                |
|                          | TANK BODY 1501 TO 3000 GALLONS   |                 |                |
| <b>Fuel Tanks</b>        |  |                 |                |
|                          | 50 GALLON/189 LITER SHORT RECTANGULAR<br>ALUMINUM FUEL TANK - LH                 | 20              |                |
|                          | RECTANGULAR FUEL TANK(S)   |                 |                |
| <b>EXCEED</b>            | POLISHING OF FUEL/HYDRAULIC TANK(S) WITH<br>PAINTED BANDS                        |                 |                |
|                          | FUEL TANK(S) FORWARD   |                 |                |



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|                     | Description   | Weight<br>Front | Weight<br>Rear |
|---------------------|---|-----------------|----------------|
| <b>EXCEED</b>       | POLISHED STAINLESS-STEEL STEP FINISH  |                 |                |
|                     | FUEL TANK CAP(S)  |                 |                |
| <b>EXCEED</b>       | DAVCO 245 FUEL/WATER SEPARATOR WITH 12<br>VOLT HEAT AND WATER IN FUEL SENSOR      | 5               |                |
|                     | EQUIFLO INBOARD FUEL SYSTEM   |                 |                |
|                     | HIGH TEMPERATURE REINFORCED NYLON<br>FUEL LINE                                    |                 |                |
| <b>Tires</b>        |   |                 |                |
|                     | MICHELIN X WORKS Z 315/80R22.5 20 PLY<br>RADIAL FRONT TIRES                       | 100             |                |
|                     | MICHELIN XDS 12R22.5 16 PLY RADIAL REAR<br>TIRES                                  |                 | 156            |
| <b>Hubs</b>         |   |                 |                |
|                     | CONMET PRESET PLUS PREMIUM IRON FRONT<br>HUBS                                     |                 | 70             |
|                     | WEBB IRON REAR HUBS   |                 |                |
| <b>Wheels</b>       |   |                 |                |
|                     | ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB<br>PILOT 5.99 INSET ALUMINUM FRONT WHEELS | -28             |                |
|                     | ALCOA ULTRA ONE ULTRAX 22.5X8.25 10-HUB<br>PILOT ALUMINUM DISC REAR WHEELS        |                 | -120           |
| <b>EXCEED</b>       | POLISHED DISC SIDE FRONT WHEELS WITH<br>DURA-BRIGHT FINISH                        |                 |                |
| <b>EXCEED</b>       | POLISHED OUTER (DISHED SIDE) REAR<br>WHEELS WITH OUTER ONLY DURA-BRIGHT<br>FINISH |                 |                |
|                     | FRONT WHEEL MOUNTING NUTS   |                 |                |
|                     | REAR WHEEL MOUNTING NUTS  |                 |                |
| <b>EXCEED</b>       | NYLON WHEEL GUARDS FRONT AND REAR ALL<br>INTERFACES                               |                 |                |
| <b>Cab Exterior</b> |   |                 |                |
|                     | 132 INCH BBC HIGH-ROOF EXTENDED<br>ALUMINUM CONVENTIONAL CAB                      | 200             | 50             |
|                     | AIR CAB MOUNTING  |                 |                |
| <b>EXCEED</b>       | CAB ROOF REINFORCEMENTS FOR ROOF<br>MOUNTED COMPONENTS                            | 2               |                |
| <b>EXCEED</b>       | NONREMOVABLE BUGSCREEN MOUNTED<br>BEHIND GRILLE                                   |                 |                |
| <b>EXCEED</b>       | 2-1/2 INCH FENDER EXTENSIONS  | 10              |                |
| <b>EXCEED</b>       | LH AND RH EXTERIOR GRAB HANDLES <u>WITH</u><br><u>SINGLE RUBBER INSERT</u>        |                 |                |



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|               | Description   | Weight<br>Front | Weight<br>Rear |
|---------------|---|-----------------|----------------|
| <b>EXCEED</b> | HOOD MOUNTED CHROMED PLASTIC GRILLE   |                 |                |
| <b>EXCEED</b> | CHROME HOOD MOUNTED AIR INTAKE GRILLE   |                 |                |
|               | FIBERGLASS HOOD   |                 |                |
| <b>EXCEED</b> | HOOD LINER, ADDED FIREWALL AND FLOOR<br>HEAT INSULATION   | 5               |                |
|               | DUAL 25 INCH ROUND STUTTER TONE HOOD<br>MOUNTED AIR HORNS WITH DUAL LANYARDS                                    | 8               |                |
|               | SINGLE ELECTRIC HORN  |                 |                |
|               | DUAL HORN SHIELDS   |                 |                |
|               | DOOR LOCKS AND IGNITION SWITCH KEYED<br>THE SAME  |                 |                |
|               | KEY QUANTITY OF 2   |                 |                |
|               | REAR LICENSE PLATE MOUNT END OF FRAME   |                 |                |
| <b>EXCEED</b> | LED HEADLIGHT ASSEMBLY AND<br>INCANDESCENT MARKER/TURN LAMP WITH<br>CHROME BEZEL                                |                 |                |
| <b>EXCEED</b> | LED AERODYNAMIC MARKER LIGHTS   |                 |                |
| <b>EXCEED</b> | DAYTIME RUNNING LIGHTS TO ACTIVATE<br>MARKER, CLEARANCE AND TAIL LIGHTS   |                 |                |
| <b>EXCEED</b> | INTEGRAL LED STOP/TAIL/BACKUP LIGHTS  |                 |                |
|               | STANDARD FRONT TURN SIGNAL LAMPS  |                 |                |
| <b>EXCEED</b> | DUAL WEST COAST <b>BRIGHT FINISH</b> HEATED<br>MIRRORS <b>WITH LH AND RH REMOTE</b>                             |                 |                |
|               | DOOR MOUNTED MIRRORS  |                 |                |
|               | 102 INCH EQUIPMENT WIDTH  |                 |                |
|               | LH AND RH 8 INCH BRIGHT FINISH CONVEX<br>MIRRORS MOUNTED UNDER PRIMARY<br>MIRRORS                               |                 |                |
|               | STANDARD SIDE/REAR REFLECTORS   |                 |                |
| <b>EXCEED</b> | RH AFTERTREATMENT SYSTEM CAB ACCESS<br>WITH POLISHED DIAMOND PLATE COVER  |                 |                |
| <b>EXCEED</b> | 2-STAGE ELECTRIC HORN AND HAZARD LAMP<br>ALERT CONTROLLED BY PARTICULATE FILTER<br>REGENERATION REQUIRED STATUS |                 |                |
| <b>EXCEED</b> | COMPOSITE EXTERIOR SUN VISOR  | 10              |                |
|               | 63X14 INCH TINTED REAR WINDOW   |                 |                |
| <b>EXCEED</b> | TINTED DOOR GLASS LH AND RH WITH TINTED<br>OPERATING WING WINDOWS   |                 |                |
| <b>EXCEED</b> | RH AND LH ELECTRIC POWERED WINDOWS,<br>PASSENGER SWITCHES ON DOOR(S)  | 4               |                |
| <b>EXCEED</b> | 20X23 INCH LH AND RH TINTED SIDE WINDOWS  |                 |                |





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|                     | Description  | Weight<br>Front | Weight<br>Rear |
|---------------------|--|-----------------|----------------|
| <b>EXCEED</b>       | 1-PIECE TINTED CURVED BONDED WINDSHIELD<br>WITH HEATED WIPER BLADE PARK AREAS                |                 |                |
| <b>EXCEED</b>       | 2 GALLON WINDSHIELD WASHER RESERVOIR<br><u>WITH FLUID LEVEL INDICATOR</u> , FRAME<br>MOUNTED |                 |                |
| <b>Cab Interior</b> |  |                 |                |
|                     | OPAL GRAY VINYL INTERIOR   |                 |                |
| <b>EXCEED</b>       | MOLDED PLASTIC DOOR PANEL WITHOUT<br>VINYL INSERT WITH ALUMINUM KICKPLATE<br>LOWER DOOR      |                 |                |
| <b>EXCEED</b>       | MOLDED PLASTIC DOOR PANEL WITHOUT<br>VINYL INSERT WITH ALUMINUM KICKPLATE<br>LOWER DOOR      |                 |                |
|                     | BLACK MATS WITH SINGLE INSULATION  |                 |                |
|                     | DASH MOUNTED ASH TRAY(S) WITHOUT<br>LIGHTER  |                 |                |
|                     | IN DASH STORAGE BIN  |                 |                |
|                     | (2) CUP HOLDERS LH AND RH DASH   |                 |                |
|                     | GRAY/CHARCOAL FLAT DASH  |                 |                |
|                     | SMART SWITCH EXPANSION MODULE  |                 |                |
| <b>EXCEED</b>       | 2-1/2 LB. FIRE EXTINGUISHER  | 5               |                |
|                     | HEATER, DEFROSTER AND AIR CONDITIONER  |                 |                |
| <b>EXCEED</b>       | STANDARD HVAC DUCTING <u>WITH SNOW<br/>SHIELD</u> FOR FRESH AIR INTAKE                       |                 |                |
|                     | MAIN HVAC CONTROLS WITH RECIRCULATION<br>SWITCH  |                 |                |
|                     | STANDARD HEATER PLUMBING   |                 |                |
|                     | VALEO HEAVY DUTY A/C REFRIGERANT<br>COMPRESSOR   |                 |                |
|                     | BINARY CONTROL, R-134A   |                 |                |
| <b>EXCEED</b>       | PREMIUM INSULATION   |                 |                |
|                     | SOLID-STATE CIRCUIT PROTECTION AND<br>FUSES  |                 |                |
|                     | 12V NEGATIVE GROUND ELECTRICAL SYSTEM  |                 |                |
|                     | DOOR ACTIVATED DOME/RED MAP LIGHTS,<br>FORWARD LH AND RH AND REAR CENTER                     |                 |                |
|                     | LH AND RH ELECTRIC DOOR LOCKS  |                 |                |
| <b>EXCEED</b>       | (1) 12V POWER SUPPLY (1) DUAL 2.1 AMP USB<br>CHARGER IN DASH                                 |                 |                |
| <b>EXCEED</b>       | TRIANGULAR REFLECTORS KIT WITHOUT<br>FLARES SHIPPED LOOSE IN CAB                             | 10              |                |



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|                                   | Description  | Weight<br>Front | Weight<br>Rear |
|-----------------------------------|--|-----------------|----------------|
|                                   | SEATS INC 911 UNIVERSAL SERIES HIGH BACK<br>AIR SUSPENSION DRIVER SEAT WITH NFPA<br>1901-2009/2016 COMPLIANT SEAT SENSOR   | 50              |                |
|                                   | SEATS INC 911 UNIVERSAL SERIES SCBA HIGH<br>BACK AIR SUSPENSION PASSENGER SEAT<br>WITH NFPA 1901-2009/2016 COMPLIANT SEAT<br>SENSOR  | 40              | 15             |
| <b>DEVIATE</b>                    | <b>CENTER MOUNTED FORWARD FACING REAR<br/>PASSENGER SEAT IS NOT AVAILABLE FROM<br/>THE FACTORY IN AN EXTENDED CAB MODEL</b><br>LH AND RH INTEGRAL DOOR PANEL ARMRESTS<br>GRAY VINYL DRIVER SEAT COVER WITH GRAY<br>CORDURA CLOTH BOLSTER AND HEADREST<br>GRAY VINYL FRONT PASSENGER SEAT COVER<br>WITH GRAY CORDURA CLOTH BOLSTER AND<br>HEADREST<br>NFPA 1901-2009 HIGH VISIBILITY ORANGE SEAT<br>BELTS |                 |                |
| <b>EXCEED</b>                     | ADJUSTABLE TILT AND TELESCOPING<br>STEERING COLUMN<br>4-SPOKE 18 INCH (450MM) STEERING WHEEL<br>DRIVER AND PASSENGER INTERIOR SUN<br>VISORS  | 10              |                |
| <b>Instruments &amp; Controls</b> |  |                 |                |
|                                   | GRAY DRIVER INSTRUMENT PANEL<br>GRAY CENTER INSTRUMENT PANEL<br>BLACK GAUGE BEZELS<br>LOW AIR PRESSURE INDICATOR LIGHT AND<br>AUDIBLE ALARM<br>2 INCH PRIMARY AND SECONDARY AIR<br>PRESSURE GAUGES   |                 |                |
| <b>EXCEED</b>                     | ENGINE COMPARTMENT MOUNTED AIR<br>RESTRICTION INDICATOR WITH GRADUATIONS,<br>WITH WARNING LIGHT IN DASH  |                 |                |
| <b>EXCEED</b>                     | PRECO/ECCO 1040 87 DECIBELS TO 112<br>DECIBELS AUTOMATIC SELF-ADJUSTING<br>BACKUP ALARM  |                 | 3              |
| <b>EXCEED</b>                     | ELECTRONIC CRUISE CONTROL WITH<br>SWITCHES IN LH SWITCH PANEL<br>IGNITION SWITCH WITH NON-REMOVABLE KEY<br>ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28<br>LED WARNING LAMPS AND DATA LINKED<br>HEAVY DUTY ONBOARD DIAGNOSTICS<br>INTERFACE CONNECTOR LOCATED BELOW LH<br>DASH   |                 |                |



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|               | Description  | Weight<br>Front | Weight<br>Rear |
|---------------|--|-----------------|----------------|
|               | 2 INCH ELECTRIC FUEL GAUGE   |                 |                |
|               | PROGRAMMABLE RPM CONTROL -<br>ELECTRONIC ENGINE  |                 |                |
|               | ELECTRICAL ENGINE COOLANT TEMPERATURE<br>GAUGE   |                 |                |
| <b>EXCEED</b> | 2 INCH TRANSMISSION OIL TEMPERATURE<br>GAUGE   |                 |                |
|               | ENGINE AND TRIP HOUR METERS INTEGRAL<br>WITHIN DRIVER DISPLAY AND HOBBS PTO<br>OPERATION HOUR METER        | 2               |                |
|               | CUSTOMER FURNISHED AND INSTALLED PTO<br>CONTROLS   |                 |                |
| <b>EXCEED</b> | ELECTRONIC STABILITY CONTROL   |                 |                |
|               | ELECTRIC ENGINE OIL PRESSURE GAUGE   |                 |                |
|               | OVERHEAD INSTRUMENT PANEL  |                 |                |
| <b>EXCEED</b> | SMARTPLEX HUB MODULE WITH OVERHEAD<br>SWITCH MOUNTING, DRIVER SIDE AND CENTER<br>CONSOLE (12 SWITCH SLOTS) | 44              |                |
|               | NFPA VEHICLE DATA RECORDER AND<br>SEATBELT DISPLAY   |                 |                |
|               | CUSTOMER FURNISHED DIN RADIO PACKAGE   | 5               |                |
|               | DASH MOUNTED RADIO   |                 |                |
|               | (2) RADIO SPEAKERS IN CAB  |                 |                |
|               | AM/FM ANTENNA MOUNTED ON FORWARD LH<br>ROOF  |                 |                |
| <b>EXCEED</b> | POWER AND GROUND WIRING PROVISION<br>OVERHEAD  |                 |                |
| <b>EXCEED</b> | ROOF/OVERHEAD CONSOLE CB RADIO<br>PROVISION  |                 |                |
|               | ELECTRONIC MPH SPEEDOMETER WITH<br>SECONDARY KPH SCALE, WITHOUT<br>ODOMETER                                |                 |                |
|               | STANDARD VEHICLE SPEED SENSOR  |                 |                |
|               | ELECTRONIC 3000 RPM TACHOMETER   |                 |                |
|               | IGNITION SWITCH CONTROLLED ENGINE STOP   |                 |                |
| <b>EXCEED</b> | 8 ON/OFF LATCHING SMARTPLEX SWITCHES   |                 |                |
| <b>EXCEED</b> | 1 ON/OFF MOMENTARY SMARTPLEX SWITCH  |                 |                |
| <b>EXCEED</b> | CAUTION SMARTPLEX INDICATOR LAMP   |                 |                |
| <b>EXCEED</b> | 1-RED, 0-AMBER, 1-GREEN SMARTPLEX<br>INDICATOR LAMPS   |                 |                |
|               | (2) OVERHEAD MOUNTED LANYARD<br>CONTROLS: (1) OFFICER AIR HORN AND (1)<br>DRIVER AIR HORN                  |                 |                |



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|                                   | Description   | Weight<br>Front | Weight<br>Rear |
|-----------------------------------|---|-----------------|----------------|
|                                   | DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY  |                 |                |
| <b>EXCEED</b>                     | SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY PROGRAMMED TO SLOWEST SPEED WITH PARK BRAKE SET |                 |                |
|                                   | MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH  |                 |                |
| <b>EXCEED</b>                     | ALTERNATING FLASHING HEADLAMP SYSTEM WITH DASH SWITCH AND NO PARK BRAKE INTERLOCK                 |                 |                |
| <b>EXCEED</b>                     | ONE VALVE PARKING BRAKE SYSTEM <u>WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR</u>   |                 |                |
|                                   | SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE                  |                 |                |
|                                   | INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS                   |                 |                |
| <b>Color</b>                      |   |                 |                |
| <b>OR COLOR OF CHOICE</b>         | CAB COLOR A: L6399EY FLAME RED PRL ELITE EY   |                 |                |
|                                   | BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT   |                 |                |
|                                   | SUNVISOR PAINTED SAME AS CAB COLOR A  |                 |                |
|                                   | STANDARD E COAT/UNDERCOATING  |                 |                |
| <b>Certification / Compliance</b> |   |                 |                |
|                                   | U.S. FMVSS CERTIFICATION  |                 |                |
| <b>EXCEED</b>                     | KENWOOD BLUETOOTH RADIO SYSTEM WITH (2) TWO ADDITIONAL SPEAKERS MOUNTED ON BACK CORNERS OF CAB    |                 |                |
| <b>EXCEED</b>                     | HEAVY-DUTY REMOVABLE RUBBER SLUSH CATCHING FLOOR MATS   |                 |                |
|                                   | FRONT AND REAR CHROME HUB AND NUT COVERS  |                 |                |

## TOTAL VEHICLE SUMMARY

### Weight Summary

|                 | Weight<br>Front | Weight<br>Rear | Total<br>Weight |
|-----------------|-----------------|----------------|-----------------|
| Factory Weight* | 7958 lbs.       | 4717 lbs.      | 12675 lbs.      |

2WD Extended Cab - Barrington Fire  
Safety



02/14/2020 7:49 AM



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|                           |           |           |            |
|---------------------------|-----------|-----------|------------|
| Total Weight <sup>+</sup> | 7958 lbs. | 4717 lbs. | 12675 lbs. |
|---------------------------|-----------|-----------|------------|

### Extended Warranty

|               |   |
|---------------|---|
| <b>EXCEED</b> | CUM EPA 2017 L9: RVF 8 YEARS / 100,000 MILES / 161,000 KM<br>EXTENDED WARRANTY. FEX APPLIES.  |
| <b>EXCEED</b> | CUM EPA 2017 L9: FCM 10 YEARS / 200,000 MILES / 322,000 KM<br>MAJOR COMPONENTS. FEX APPLIES.  |
| <b>EXCEED</b> | TC4: MD MODERATE 7 YEARS/100,000 MILES / 161,000 KM<br>EXTENDED TRUCK COVERAGE. FEX APPLIES   |
| <b>EXCEED</b> | AXLE: FRONT/SINGLE REAR MD MODERATE 5 YEAR/100,000<br>MILE/161,000 KM EXTENDED AXLE COVERAGE. |
| <b>EXCEED</b> | TOWING: 5 YEARS/UNLIMITED MILES/KM EXTENDED TOWING<br>COVERAGE \$550 CAP FEX APPLIES          |

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

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

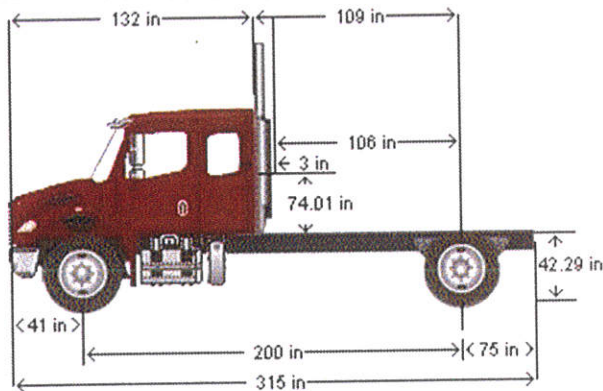


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## DIMENSIONS



## VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

|                                      |   |
|--------------------------------------|---|
| Model .....                          | M2106   |
| Wheelbase (545) .....                | 5075MM (200 INCH) WHEELBASE   |
| Rear Frame Overhang (552) .....      | 1900MM (75 INCH) REAR FRAME OVERHANG  |
| Fifth Wheel (578) .....              | NO FIFTH WHEEL  |
| Mounting Location (577) .....        | NO FIFTH WHEEL LOCATION   |
| Maximum Forward Position (in) .....  | 0   |
| Maximum Rearward Position (in) ..... | 0   |
| Amount of Slide Travel (in) .....    | 0   |
| Slide Increment (in) .....           | 0   |
| Desired Slide Position (in) .....    | 0.0   |
| Cab Size (829) .....                 | 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 C-PILLAR MOUNTED VERTICAL TAILPIPE |

## TABLE SUMMARY - DIMENSIONS



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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)                     | 108.7  |
| Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA) | 105.7  |
| 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  | 183.5  |
| Cab Height (CH)  | 74.0   |
| Wheelbase (WB)   | 199.8  |
| Frame Overhang (OH)  | 74.8   |
| Overall Length (OAL)   | 315.4  |
| Rear Axle Spacing  | 0.0    |
| Unladen Frame Height at Centerline of Rear Axle                    | 42.3   |

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.) .....   | 27120.0  |
| Expected Tag Axle(s) Load (lbs.) .....    | 0.0  |
| Expected GVW (lbs.) .....                 | 45120  |
| Expected GCW (lbs.) .....                 | 0.0  |
| Front Axle (400) .....                    | DETROIT DA-F-18.0-5 18,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE                           |
| Front Suspension (620) .....              | 18,000# TAPERLEAF 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 ULTRAX 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS                        |
| Rear Tires (094) .....                    | MICHELIN XDS 12R22.5 16 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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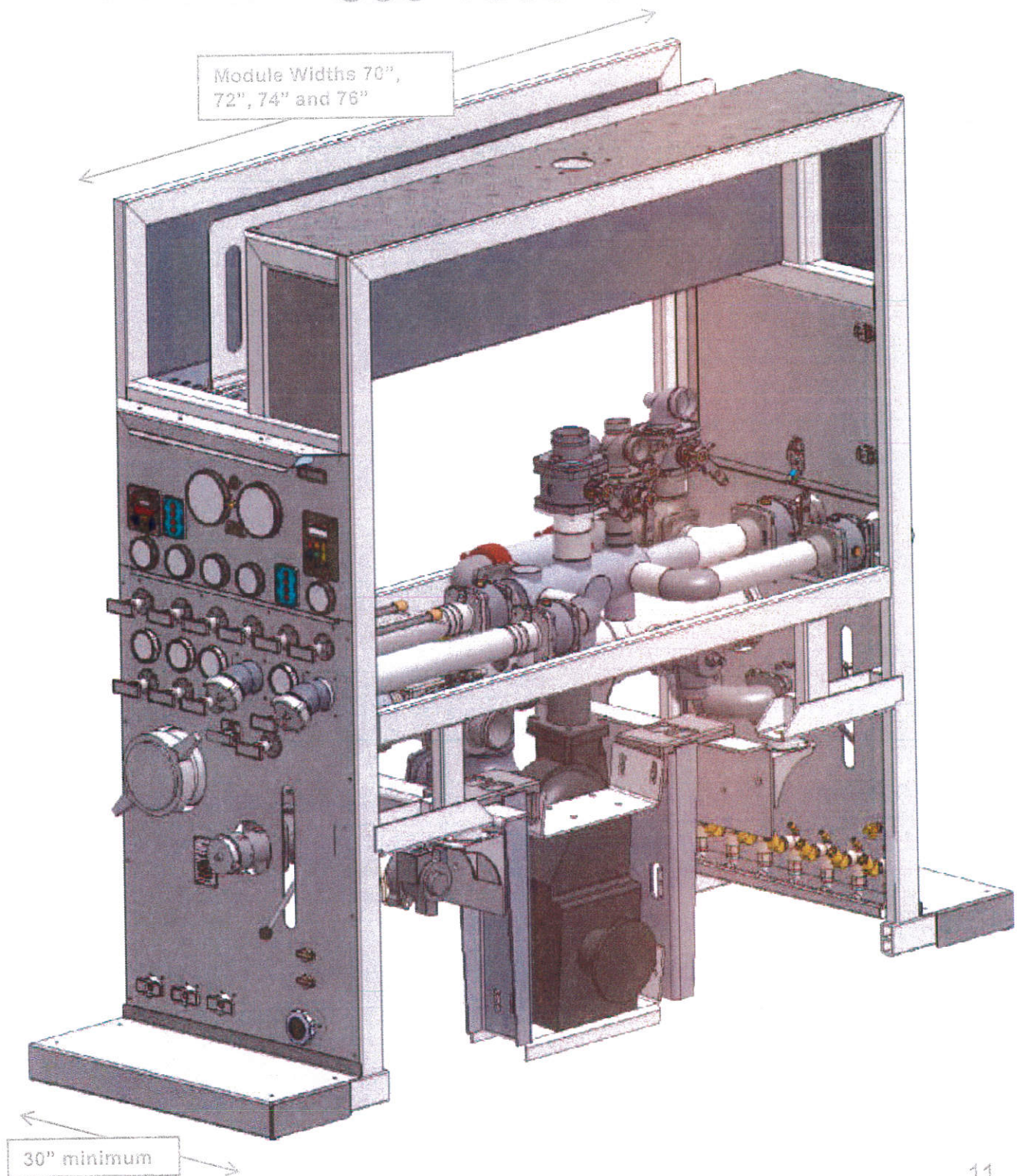
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|                                      | Front | Rear  |
|--------------------------------------|-------|-------|
| <b>Axle Component Weight Ratings</b> |       |       |
| Axles                                | 18000 | 31000 |
| Suspension                           | 18000 | 31000 |
| Hubs                                 | 23000 | 31000 |
| Brakes                               | 21500 | 31500 |
| Wheels                               | 20000 | 29600 |
| Tires                                | 18180 | 27120 |
| Power Steering                       | 18000 | N/A   |
| GAWR (per axle)                      | 18000 | 27120 |
| GAWR (per axle system)               | 18000 | 27120 |
| Expected Load (per axle system)      | 18000 | 27120 |
| <b>Vehicle GVWR Summary</b>          |       |       |
| Calculated GVWR                      | 45120 |       |
| Expected GVWR                        | 45120 |       |
| All weights displayed in pounds      |       |       |

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



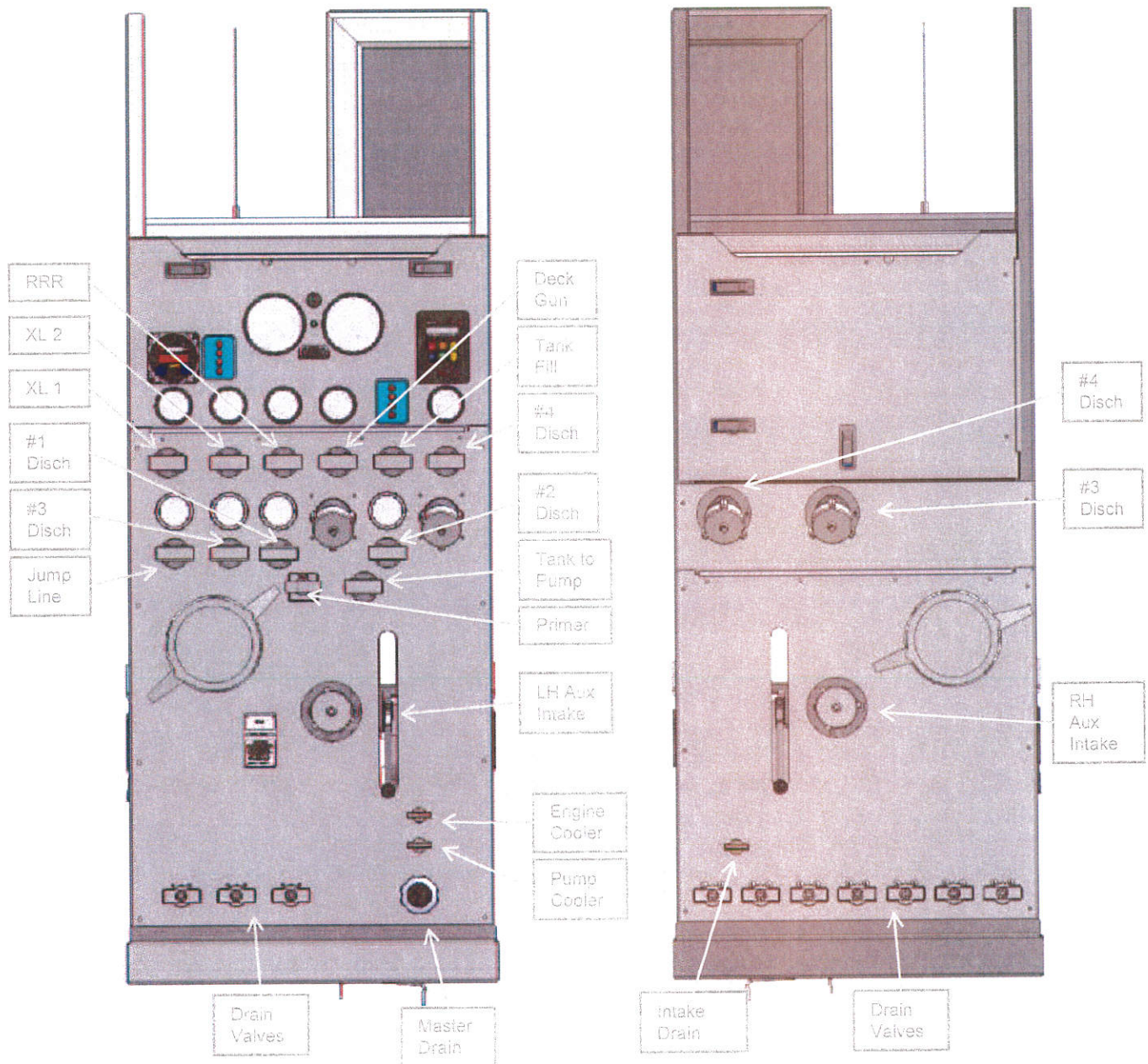
# MG Split Shaft Side Mount 500-1000 GPM



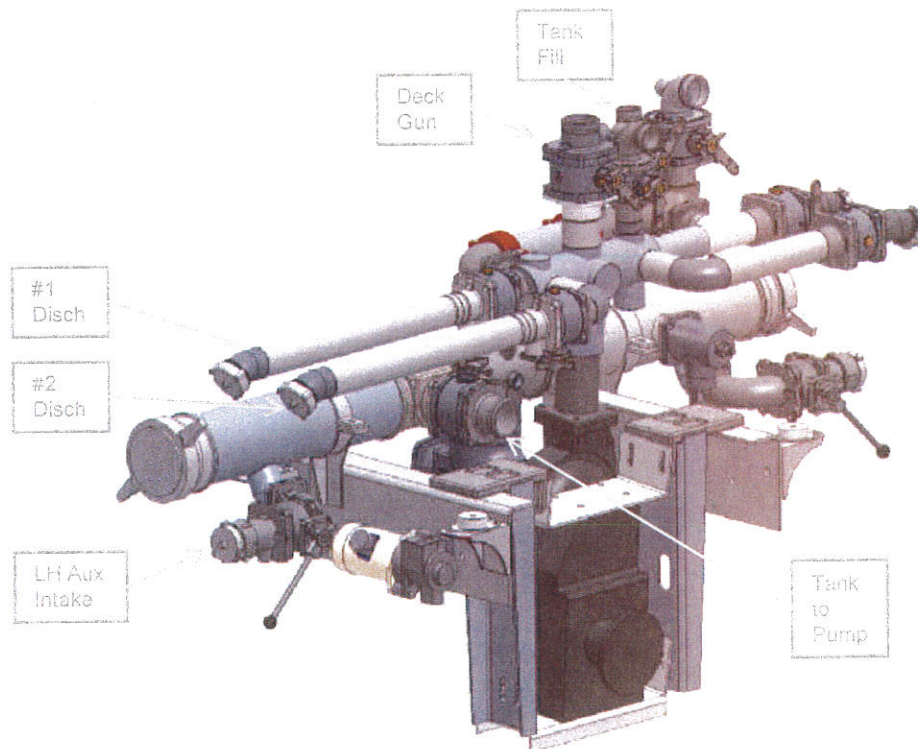
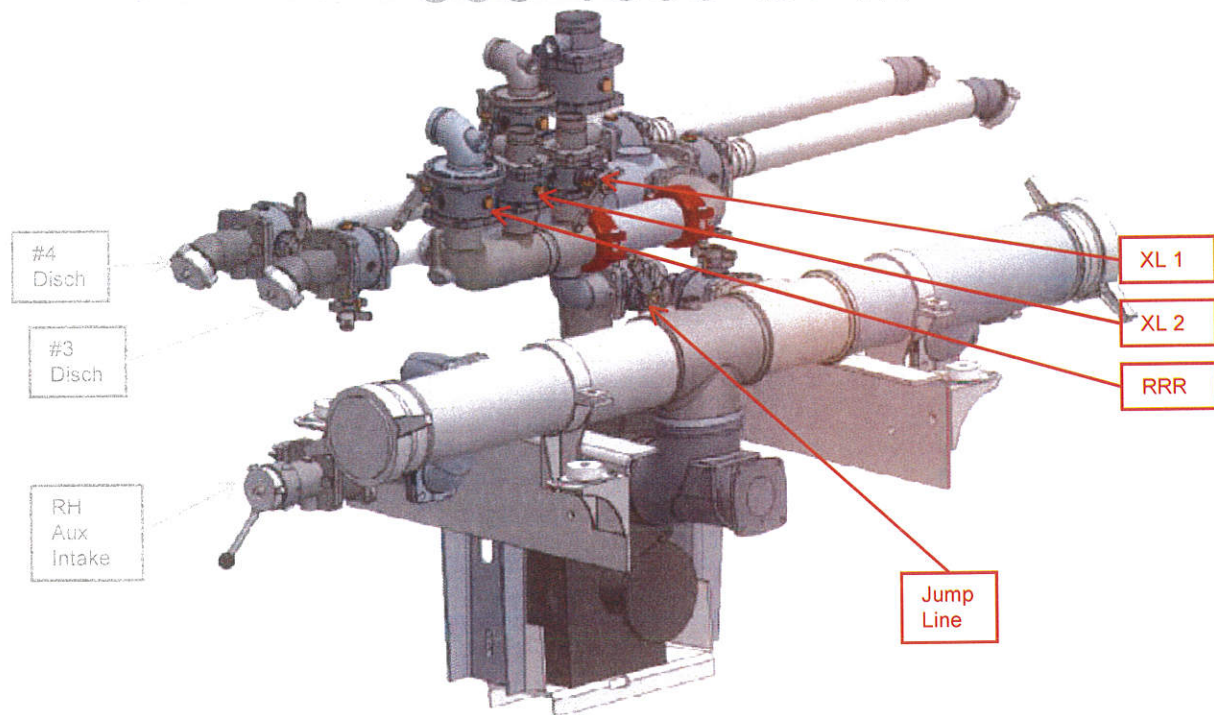
Note: Per NFPA, maximum control height of 72".



# MG Split Shaft Side Mount 500-1000 GPM



# MG Split Shaft Side Mount 500-1000 GPM



Note: Options in Red are foam capable.





## MG Pump

### DETAILED SPECIFICATIONS

#### Pump Assembly

1. The pump shall be of a size and design to mount on the chassis rails of commercial and custom truck chassis, and have the capacity of \_\_\_\_ gallons per minute (U.S. GPM), NFPA-1901 rated performance.
2. The entire pump shall be assembled and tested at the pump manufacturer's factory.
3. The pump shall be driven by a drive line from the truck transmission. The engine shall provide sufficient horsepower and RPM to enable pump to meet and exceed its rated performance.
4. The entire pump shall be hydrostatically tested to a pressure of 600 PSI. The pump shall be fully tested at the pump manufacturer's factory to the performance spots as outlined by the latest NFPA Pamphlet No. 1901. Pump shall be free from objectionable pulsation and vibration.
5. The pump body and related parts shall be of fine grain alloy cast iron, with a minimum tensile strength of 30,000 PSI. All metal moving parts in contact with water shall be of high quality bronze or stainless steel. Pump utilizing castings made of lower tensile strength cast iron not acceptable.
6. Pump body shall be vertically split, on a single plane for easy removal of entire impeller assembly including clearance rings.
7. Pump shaft to be rigidly supported by two bearings for minimum deflection. The bearings shall be heavy-duty, deep groove ball bearings in the gearbox and they shall be splash lubricated.
8. The pump impeller shall be hard, fine grain bronze of the mixed flow design; accurately machines, hand-ground and individually balanced. The vanes of the impeller intake eye shall be hand ground and polished to a sharp edge, and be of sufficient size and design to provide ample reserve capacity utilizing minimum horsepower.
9. Pump impeller shall be hard, fine grain bronze of the mixed flow design; accurately machined hand ground and individually balanced. The vanes of the impeller intake eyes shall be hand ground and polished to a sharp edge and be of sufficient size and design to provide ample reserve capacity utilizing minimum horsepower.
10. Impeller clearance rings shall be bronze, easily renewable without replacing impeller or pump volute body.
11. The pump shaft shall be heat-treated, electric furnace, corrosion resistant stainless steel. Pump shaft must be sealed with double-lip oil seal to keep road dirt and water out of gearbox.

#### Gearbox

1. Pump gearbox shall be of sufficient size to withstand up to 16,000 lbs. ft. of torque of the engine. The drive unit shall be designed of ample capacity for lubrication reserve and to maintain the proper operating temperature.
2. The gearbox drive shafts shall be of heat-treated chrome nickel steel and at least 2-3/4 inches in diameter, on both the input and output drive shafts. They shall withstand the full torque of the engine.
3. All gears, both drive and pump, shall be of highest quality electric furnace chrome nickel steel. Bores shall be ground to size and teeth integrated and hardened, to give an extremely accurate



# Bid Specifications

MG

- gear for long life, smooth, quiet running, and higher load carrying capability. An accurately cut spur design shall be provided to eliminate all possible end thrust. (No exceptions.)
4. The pump ratio shall be selected by the apparatus manufacturer to give maximum performance with the engine and transmission selected.
  5. If the gearbox is equipped with a power shift, the shifting mechanism shall be a heat treated, hard anodized aluminum power cylinder, with stainless steel shaft. An in-cab control for rapid shift shall be provided that locks in road or pump.
  6. For automatic transmissions, three green warning lights shall be provided to indicate to the operator(s) when the pump has completed the shift from Road to Pump position. Two green lights to be located in the truck driving compartment and one green light on pump operators panel adjacent to the throttle control. For manual transmissions, one green warning light will be provided for the driving compartment. All lights to have appropriate identification/instruction plates.

## Priming Pump

The priming pump shall be a positive displacement, oil-less rotary vane electric motor driven pump conforming to the requirements of NFPA 1901. The pump body shall be manufactured of heat treated anodized aluminum for wear and corrosion resistance. The pump shall be capable of producing a minimum 24 Hg vacuum at 2000 feet above sea level. The electric motor shall be a 12 VDC (or 24 VDC) totally enclosed unit. The priming pump shall not require lubrication. The priming pump shall be operated by a single push-pull control valve mounted on the pump operator panel. The control valve shall be of all bronze construction.





# NORTHEASTERN FIRE

## FIRE APPARATUS SPECIALISTS



Northeastern Fire Associates, Inc. has teamed up with the industry's leading suppliers of polypropylene apparatus parts and water tanks. Bringing decades of apparatus design experience to your committee and thousands of pumps tested, we understand more than anyone what components work, are cost effective, require less maintenance and more importantly, **WILL LAST!** We work with you from start to finish to custom design each frame to fit your truck body.

### *WHY choose a poly body?*

- Customizable,
- Cannot rust or corrode,
- Easily repairable,
- Impact resistant,
- No sharp edges,
- Do not crack,
- Affordable,
- Ideal refurbishing option,
- And available in any shape and size!

**The possibilities are endless!**

Let NEFA assist your department in designing a versatile, cost effective poly body that fits your needs!

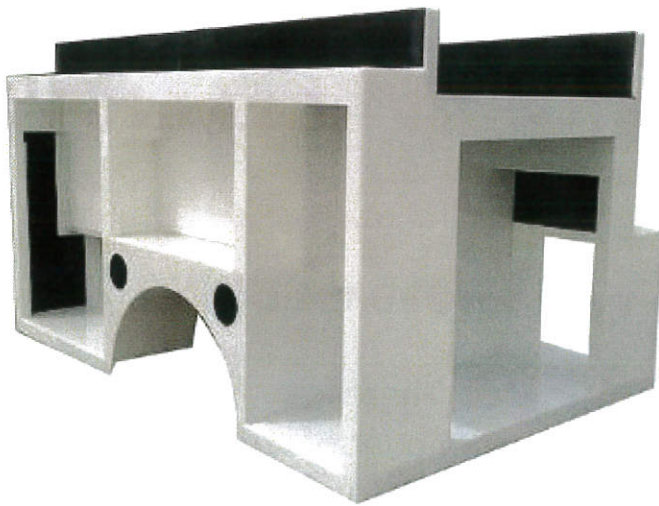
### WORD IS GETTING OUT!

There is an increasing amount of attention being paid to alternative fire apparatus body construction. With more corrosive winter traction road treatments, fire departments are facing an additional challenge... protecting their investment and keeping paint on their fire apparatus. The solution? Poly bodies!



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Northeastern Fire Associates, Inc. has over 30 years of fire apparatus experience and we are equipped to work with you to meet your individual needs.

With our regional approach, we can offer personalized service and provide exceptional post-sale assistance all while supporting our nearby economy.

We'd love to work with you!



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