

**Prepared for:**  
Alexis Fire MY2017  
109 East Broadway St  
Alexis, IL 61412  
Phone: 309-482-3431

**Prepared by:**  
Duane Schaefer  
TRANSCHICAGO TRUCK  
GROUP  
776 N. YORK ROAD  
ELMHURST, IL 60126  
Phone: 630-279-0600 ext 609  
E-Mail:  
duaneschaefer@transchicago.com

*A proposal for*  
**Alexis Fire MY2017**  
**Demo RC 12K 27K**  
**Customer Draft # 2**

*Prepared by*  
**TRANSCHICAGO TRUCK GROUP**  
*Duane Schaefer*

*May 12, 2016*

**Freightliner M2 106**



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



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## SPECIFICATION PROPOSAL

| Description  |
|--|
| <b>Price Level</b>   |
| M2 PRL-10M (EFF:02/11/15)  |
| <b>Data Version</b>  |
| SPECPRO21 DATA RELEASE VER 027   |
| <b>Vehicle Configuration</b>   |
| M2 106 CONVENTIONAL CHASSIS<br>2016 MODEL YEAR SPECIFIED<br>SET BACK AXLE - TRUCK<br>STRAIGHT TRUCK PROVISION<br>LH PRIMARY STEERING LOCATION  |
| <b>General Service</b>   |
| TRUCK CONFIGURATION<br>DOMICILED, USA 50 STATES (INCLUDING<br>CALIFORNIA AND CARB OPT-IN STATES)<br>FIRE SERVICE<br>EMERGENCY VEHICLES BUSINESS SEGMENT<br>LIQUID BULK COMMODITY<br>TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN<br>TRANSIT, IS SPENT ON PAVED ROADS<br>MAXIMUM 8% EXPECTED GRADE<br>SMOOTH CONCRETE OR ASPHALT PAVEMENT -<br>MOST SEVERE IN-TRANSIT (BETWEEN SITES)<br>ROAD SURFACE<br>MEDIUM TRUCK WARRANTY<br>EXPECTED FRONT AXLE(S) LOAD : 12000.0 lbs<br>EXPECTED REAR DRIVE AXLE(S) LOAD :<br>27000.0 lbs<br>EXPECTED GROSS VEHICLE WEIGHT CAPACITY<br>: 39000.0 lbs |
| <b>Truck Service</b>   |

Application Version 8.9.114  
Data Version PRL-10M.027  
DEMO RC 12K 27K 16 May



05/12/2016 7:37 PM

Page 2 of 20

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#### Description

FIRE TANK - NO MAIN DRIVELINE DRIVEN SPLIT-SHAFT PTO/PUMP  
EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in

#### Engine

CUM ISL 350 HP @ 2000 RPM, 2200 GOV RPM,  
1000 LB/FT @ 1400 RPM

#### Electronic Parameters

75 MPH ROAD SPEED LIMIT  
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT  
PTO MODE ENGINE RPM LIMIT - 1100 RPM  
PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED  
PTO RPM WITH CRUISE SET SWITCH - 700 RPM  
PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM  
PTO MODE CANCEL VEHICLE SPEED - 5 MPH  
PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND  
PTO MINIMUM RPM - 700  
REGEN INHIBIT SPEED THRESHOLD - 5 MPH

#### Engine Equipment

2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG17 BUT NOT FINAL GHG17 CONFIGURATION  
2008 CARB EMISSION CERTIFICATION - EXEMPTED VEHICLE; NO CLEAN IDLE LABEL REQUIRED  
STANDARD OIL PAN  
ENGINE MOUNTED OIL CHECK AND FILL  
ONE PIECE VALVE COVER  
SIDE OF HOOD AIR INTAKE WITH NFPA COMPLIANT EMBER SCREEN AND FIRE RETARDANT DONALDSON AIR CLEANER  
DR 12V 275 AMP 40-SI BRUSHLESS PAD ALTERNATOR WITH REMOTE BATTERY VOLTAGE SENSE  
(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT MAINTENANCE FREE 2250 CCA THREADED STUD BATTERIES



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**Description**

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BATTERY BOX FRAME MOUNTED  
STANDARD BATTERY JUMPERS  
SINGLE BATTERY BOX FRAME MOUNTED LH  
SIDE UNDER CAB  
WIRE GROUND RETURN FOR BATTERY CABLES  
WITH ADDITIONAL FRAME GROUND RETURN  
NON-POLISHED BATTERY BOX COVER  
CUMMINS TURBOCHARGED 18.7 CFM AIR  
COMPRESSOR WITH INTERNAL SAFETY VALVE  
STANDARD MECHANICAL AIR COMPRESSOR  
GOVERNOR  
AIR COMPRESSOR DISCHARGE LINE  
GVG, FIRE AND EMERGENCY SERVICE  
VEHICLES ENGINE WARNING  
CUMMINS EXHAUST BRAKE INTEGRAL WITH  
VARIABLE GEOMETRY TURBO WITH ON/OFF  
DASH SWITCH  
RH OUTBOARD UNDER STEP MOUNTED  
HORIZONTAL AFTERTREATMENT SYSTEM  
ASSEMBLY WITH RH HORIZONTAL TAILPIPE  
EXITING FORWARD OF REAR TIRES  
ENGINE AFTERTREATMENT DEVICE,  
AUTOMATIC OVER THE ROAD ACTIVE  
REGENERATION AND DASH MOUNTED SINGLE  
REGENERATION REQUEST/INHIBIT SWITCH  
STANDARD EXHAUST SYSTEM LENGTH  
RH HORIZONTAL TAILPIPE, EXIT FORWARD OF  
REAR TIRES AT 90 DEGREES  
6 GALLON DIESEL EXHAUST FLUID TANK  
100 PERCENT DIESEL EXHAUST FLUID FILL  
LH MEDIUM DUTY STANDARD DIESEL EXHAUST  
FLUID TANK LOCATION  
DIESEL EXHAUST FLUID PUMP MOUNTED AFT  
OF DIESEL EXHAUST FLUID TANK  
STANDARD DIESEL EXHAUST FLUID TANK CAP  
HORTON DRIVEMASTER ADVANTAGE ON/OFF  
FAN DRIVE  
AUTOMATIC FAN CONTROL WITHOUT DASH  
SWITCH, NON ENGINE MOUNTED  
CUMMINS SPIN ON FUEL FILTER  
COMBINATION FULL FLOW/BYPASS OIL FILTER  
1100 SQUARE INCH ALUMINUM RADIATOR



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#### Description

ANTIFREEZE TO -34F, OAT (NITRITE AND  
SILICATE FREE) EXTENDED LIFE COOLANT  
GATES BLUE STRIPE COOLANT HOSES OR  
EQUIVALENT  
CONSTANT TENSION HOSE CLAMPS FOR  
COOLANT HOSES  
RADIATOR DRAIN VALVE  
LOWER RADIATOR GUARD  
ALUMINUM FLYWHEEL HOUSING  
ELECTRIC GRID AIR INTAKE WARMER  
DELCO 12V 38MT HD STARTER WITH  
INTEGRATED MAGNETIC SWITCH

#### Transmission

ALLISON 3000 EVS AUTOMATIC TRANSMISSION  
WITH PTO PROVISION

#### Transmission Equipment

ALLISON VOCATIONAL PACKAGE 198 -  
AVAILABLE ON 3000/4000 PRODUCT FAMILIES  
WITH VOCATIONAL MODEL EVS  
ALLISON VOCATIONAL RATING FOR FIRE  
TRUCK/EMERGENCY VEHICLE APPLICATIONS  
AVAILABLE WITH ALL PRODUCT FAMILIES  
PRIMARY MODE GEARS, LOWEST GEAR 1,  
START GEAR 1, HIGHEST GEAR 5, AVAILABLE  
FOR 3000/4000 PRODUCT FAMILIES ONLY  
SECONDARY MODE GEARS, LOWEST GEAR 1,  
START GEAR 1, HIGHEST GEAR 5, AVAILABLE  
FOR 3000/4000 PRODUCT FAMILIES ONLY  
NEUTRAL AT STOP - DISABLED, FUELSense -  
DISABLED  
DRIVER SWITCH INPUT - DEFAULT - NO  
SWITCHES  
ELECTRONIC TRANSMISSION CUSTOMER  
ACCESS CONNECTOR MOUNTED BACK OF CAB  
MAGNETIC PLUGS, ENGINE DRAIN,  
TRANSMISSION DRAIN, AXLE(S) FILL AND  
DRAIN  
PUSH BUTTON ELECTRONIC SHIFT CONTROL,  
DASH MOUNTED  
TRANSMISSION PROGNOSTICS - ENABLED 2013  
WATER TO OIL TRANSMISSION COOLER, IN  
RADIATOR END TANK



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#### Description

TRANSMISSION OIL CHECK AND FILL WITH  
ELECTRONIC OIL LEVEL CHECK  
SYNTHETIC TRANSMISSION FLUID (TES-295  
COMPLIANT)

#### Front Axle and Equipment

DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74  
DROP SINGLE FRONT AXLE  
MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT  
BRAKES, DOUBLE ANCHOR, FABRICATED  
SHOES  
FIRE AND EMERGENCY SEVERE SERVICE,  
NON-ASBESTOS FRONT LINING  
CONMET CAST IRON FRONT BRAKE DRUMS  
SKF SCOTSEAL PLUS XL FRONT OIL SEALS  
VENTED FRONT HUB CAPS WITH WINDOW,  
CENTER AND SIDE PLUGS - OIL  
STANDARD SPINDLE NUTS FOR ALL AXLES  
MERITOR AUTOMATIC FRONT SLACK  
ADJUSTERS  
TRW THP-60 POWER STEERING  
POWER STEERING PUMP  
2 QUART SEE THROUGH POWER STEERING  
RESERVOIR  
ORGANIC SAE 80/90 FRONT AXLE LUBE

#### Front Suspension

12,000# DUAL TAPERLEAF FRONT SUSPENSION  
MAINTENANCE FREE RUBBER BUSHINGS -  
FRONT SUSPENSION  
FRONT SUSPENSION WITH LEFT HAND OFFSET  
SHACKLE BRACKET  
FRONT SHOCK ABSORBERS

#### Rear Axle and Equipment

RS-25-160 27,000# R-SERIES FIRE/EMERGENCY  
SERVICE SINGLE REAR AXLE  
4.89 REAR AXLE RATIO  
IRON REAR AXLE CARRIER WITH STANDARD  
AXLE HOUSING  
MXL 17N MERITOR EXTENDED LUBE MAIN  
DRIVELINE WITH FULL ROUND YOKES  
MERITOR 16.5X7 P CAM REAR BRAKES,  
DOUBLE ANCHOR, CAST SHOES



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**Description**

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FIRE AND EMERGENCY SEVERE SERVICE NON-  
ASBESTOS REAR BRAKE LINING  
BRAKE CAMS AND CHAMBERS ON FORWARD  
SIDE OF DRIVE AXLE(S)  
WEBB HEAVY WEIGHT CAST IRON REAR BRAKE  
DRUMS  
SKF SCOTSEAL PLUS XL REAR OIL SEALS  
HALDEX GOLDSEAL LONGSTROKE 1-DRIVE  
AXLE SPRING PARKING CHAMBERS  
HALDEX AUTOMATIC REAR SLACK ADJUSTERS  
ORGANIC SAE 80/90 REAR AXLE LUBE

**Rear Suspension**

27,000# FLAT LEAF SPRING REAR SUSPENSION  
WITH RADIUS ROD FOR FIRE/EMERGENCY  
SERVICE  
SPRING SUSPENSION - NO AXLE SPACERS  
STANDARD AXLE SEATS IN AXLE CLAMP  
GROUP  
FORE/AFT CONTROL RODS

**Brake System**

AIR BRAKE PACKAGE  
WABCO 4S/4M ABS WITH TRACTION CONTROL  
REINFORCED NYLON, FABRIC BRAID AND WIRE  
BRAID CHASSIS AIR LINES  
FIBER BRAID PARKING BRAKE HOSE  
STANDARD BRAKE SYSTEM VALVES  
STANDARD AIR SYSTEM PRESSURE  
PROTECTION SYSTEM  
STD U.S. FRONT BRAKE VALVE  
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE,  
NO REAR PROPORTIONING VALVE  
BW AD-9SI BRAKE LINE AIR DRYER WITH  
HEATER  
AIR DRYER MOUNTED UNDER HOOD  
STEEL AIR TANKS MOUNTED AFT INSIDE  
AND/OR BELOW FRAME JUST FORWARD OF  
REAR SUSPENSION, NO TRIPLE OR TORPEDO  
TANKS  
CLEAR FRAME RAIL FROM BACK OF CAB TO  
FRONT REAR SUSPENSION BRACKET LH RAIL  
INSIDE/OUTBOARD AND BELOW



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| Description  |
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| PULL CABLES ON ALL AIR RESERVOIR(S)  |
| <b>Trailer Connections</b>   |
| UPGRADED CHASSIS MULTIPLEXING UNIT   |
| UPGRADED BULKHEAD MULTIPLEXING UNIT  |
| NO HIGH CURRENT TRAILER/BODY CABLE   |
| <b>Wheelbase &amp; Frame</b>   |
| 5350MM (211 INCH) WHEELBASE  |
| 7/16X3-9/16X11-1/8 INCH STEEL FRAME<br>(11.11MMX282.6MM/0.437X11.13 INCH) 120KSI   |
| 1300MM (51 INCH) REAR FRAME OVERHANG   |
| FRAME OVERHANG RANGE: 51 INCH TO 60 INCH   |
| CALC'D BACK OF CAB TO REAR SUSP C/L (CA) :<br>145.45 in  |
| CALCULATED EFFECTIVE BACK OF CAB TO<br>REAR SUSPENSION C/L (CA) : 142.45 in  |
| CALC'D FRAME LENGTH - OVERALL : 291.39   |
| CALC'D SPACE AVAILABLE FOR DECKPLATE :<br>145.45 in  |
| CALCULATED FRAME SPACE LH SIDE : 132.4 in  |
| CALCULATED FRAME SPACE RH SIDE : 154.01 in   |
| SQUARE END OF FRAME  |
| FRONT CLOSING CROSSMEMBER  |
| STANDARD WEIGHT ENGINE CROSSMEMBER   |
| STANDARD MIDSHIP #1 CROSSMEMBER(S)   |
| STANDARD REARMOST CROSSMEMBER  |
| STANDARD SUSPENSION CROSSMEMBER  |
| <b>Chassis Equipment</b>   |
| THREE-PIECE 14 INCH CHROME STEEL<br>BUMPER WITH COLLAPSIBLE ENDS AND LH<br>WING CUTOUT FOR FEDERAL<br>MS100/ES100/ES100C SPEAKER |
| FRONT TOW HOOKS - FRAME MOUNTED  |
| BUMPER MOUNTING FOR SINGLE LICENSE<br>PLATE  |
| FENDER AND FRONT OF HOOD MOUNTED<br>FRONT MUDFLAPS   |
| GRADE 8 THREADED HEX HEADED FRAME<br>FASTENERS   |



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| Description  |
|--|
| D15-16004-000 CENTER PUNCH TO MARK<br>CENTERLINE OF REAR SUSPENSION ON<br>FRAME WEB<br>TANK BODY 1501 TO 3000 GALLONS  |
| <b>Fuel Tanks</b>  |
| 50 GALLON/189 LITER SHORT RECTANGULAR<br>ALUMINUM FUEL TANK - LH<br>RECTANGULAR FUEL TANK(S)<br>POLISHING OF FUEL/HYDRAULIC TANK(S) WITH<br>PAINTED BANDS<br>FUEL TANK(S) FORWARD<br>POLISHED STAINLESS STEEL STEP FINISH<br>FUEL TANK CAP(S)<br>ALLIANCE FUEL FILTER/WATER SEPARATOR<br>WITH HEATED BOWL<br>EQUIFLO INBOARD FUEL SYSTEM<br>HIGH TEMPERATURE REINFORCED NYLON<br>FUEL LINE |
| <b>Tires</b>   |
| MICHELIN XZE2 11R22.5 14 PLY RADIAL FRONT<br>TIRES<br>MICHELIN XZY-3 12R22.5 16 PLY RADIAL REAR<br>TIRES   |
| <b>Hubs</b>  |
| CONMET PRESET PLUS IRON FRONT HUBS<br>CONMET PRESET PLUS IRON REAR HUBS  |
| <b>Wheels</b>  |
| ACCURIDE 28828 22.5X8.25 10-HUB PILOT 6.18<br>INSET 2-HAND HD STEEL DISC FRONT WHEELS<br>ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-<br>HAND HD STEEL DISC REAR WHEELS<br>FRONT WHEEL MOUNTING NUTS<br>REAR WHEEL MOUNTING NUTS   |
| <b>Cab Exterior</b>  |
| 106 INCH BBC FLAT ROOF ALUMINUM<br>CONVENTIONAL CAB<br>AIR CAB MOUNTS<br>LH AND RH EXTERIOR GRAB HANDLES WITH<br>SINGLE RUBBER INSERT  |

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**Description**

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HOOD MOUNTED CHROMED PLASTIC GRILLE  
CHROME HOOD MOUNTED AIR INTAKE GRILLE  
FIBERGLASS HOOD  
DUAL 25 INCH ROUND STUTTER TONE HOOD  
MOUNTED AIR HORNS  
SINGLE ELECTRIC HORN  
DUAL HORN SHIELDS  
DOOR LOCKS AND IGNITION SWITCH KEYED  
THE SAME  
REAR LICENSE PLATE MOUNT END OF FRAME  
INTEGRAL HEADLIGHT/MARKER ASSEMBLY  
WITH CHROME BEZEL  
LED AERODYNAMIC MARKER LIGHTS  
OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE  
WIRING WITH SEPARATE STOP/TAIL WIRES TO  
7 FEET BEYOND END OF FRAME  
STANDARD FRONT TURN SIGNAL LAMPS  
DUAL WEST COAST BRIGHT FINISH HEATED  
MIRRORS WITH LH AND RH REMOTE  
DOOR MOUNTED MIRRORS  
102 INCH EQUIPMENT WIDTH  
LH AND RH 8 INCH BRIGHT FINISH CONVEX  
MIRRORS MOUNTED UNDER PRIMARY  
MIRRORS  
STANDARD SIDE/REAR REFLECTORS  
63X14 INCH TINTED REAR WINDOW  
TINTED DOOR GLASS LH AND RH WITH TINTED  
NON-OPERATING WING WINDOWS  
MANUAL DOOR WINDOW REGULATORS  
TINTED WINDSHIELD  
2 GALLON WINDSHIELD WASHER RESERVOIR  
WITHOUT FLUID LEVEL INDICATOR, FRAME  
MOUNTED

**Cab Interior**

OPAL GRAY VINYL INTERIOR  
MOLDED PLASTIC DOOR PANEL  
MOLDED PLASTIC DOOR PANEL  
BLACK MATS WITH SINGLE INSULATION  
DASH MOUNTED ASH TRAYS AND LIGHTER



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**Description**

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FORWARD ROOF MOUNTED CONSOLE WITH  
UPPER STORAGE COMPARTMENTS WITHOUT  
NETTING  
IN DASH STORAGE BIN  
(2) CUP HOLDERS LH AND RH DASH  
GRAY/CHARCOAL FLAT DASH  
HEATER, DEFROSTER AND AIR CONDITIONER  
STANDARD HVAC DUCTING  
MAIN HVAC CONTROLS WITH RECIRCULATION  
SWITCH  
STANDARD HEATER PLUMBING  
DENSO HEAVY DUTY AIR CONDITIONER  
COMPRESSOR  
BINARY CONTROL, R-134A  
STANDARD INSULATION  
SOLID-STATE CIRCUIT PROTECTION AND  
FUSES  
12V NEGATIVE GROUND ELECTRICAL SYSTEM  
DOME LIGHT WITH 3-WAY SWITCH ACTIVATED  
BY LH AND RH DOORS  
CAB DOOR LATCHES WITH MANUAL DOOR  
LOCKS  
(1) 12 VOLT POWER SUPPLY IN DASH  
SEATS INC 911 UNIVERSAL SERIES HIGH BACK  
AIR SUSPENSION DRIVER SEAT WITH NFPA  
1901-2009 COMPLIANT SEAT SENSOR  
SEATS INC 911 UNIVERSAL SERIES HIGH BACK  
AIR SUSPENSION PASSENGER SEAT WITH  
NFPA 1901-2009 COMPLIANT SEAT SENSOR  
LH AND RH INTEGRAL DOOR PANEL ARMRESTS  
GRAY VINYL DRIVER SEAT COVER WITH GRAY  
CORDURA CLOTH BOLSTER AND HEADREST  
GRAY VINYL FRONT PASSENGER SEAT COVER  
WITH GRAY CORDURA CLOTH BOLSTER AND  
HEADREST  
3 POINT HIGH VISIBILITY ORANGE RETRACTOR  
DRIVER AND RH FRONT PASSENGER SEAT  
BELTS WITH NFPA 1901-2009 COMPLIANT  
SENSOR AND DASH HARNESS  
ADJUSTABLE TILT AND TELESCOPING  
STEERING COLUMN  
4-SPOKE 18 INCH (450MM) STEERING WHEEL



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**Description**

DRIVER AND PASSENGER INTERIOR SUN  
VISORS

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**Instruments & Controls**

GRAY DRIVER INSTRUMENT PANEL  
GRAY CENTER INSTRUMENT PANEL  
BLACK GAUGE BEZELS  
LOW AIR PRESSURE INDICATOR LIGHT AND  
AUDIBLE ALARM  
2 INCH PRIMARY AND SECONDARY AIR  
PRESSURE GAUGES  
INTAKE MOUNTED AIR RESTRICTION  
INDICATOR WITHOUT GRADUATIONS  
ELECTRONIC CRUISE CONTROL WITH  
SWITCHES IN LH SWITCH PANEL  
KEY OPERATED IGNITION SWITCH AND  
INTEGRAL START POSITION; 4 POSITION  
OFF/RUN/START/ACCESSORY  
ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28  
LED WARNING LAMPS AND DATA LINKED  
HEAVY DUTY ONBOARD DIAGNOSTICS  
INTERFACE CONNECTOR LOCATED BELOW LH  
DASH  
2 INCH ELECTRIC FUEL GAUGE  
ENGINE REMOTE INTERFACE NOT  
CONFIGURED  
ENGINE REMOTE INTERFACE CONNECTOR AT  
BACK OF CAB  
ELECTRICAL ENGINE COOLANT TEMPERATURE  
GAUGE  
2 INCH TRANSMISSION OIL TEMPERATURE  
GAUGE  
ENGINE AND TRIP HOUR METERS INTEGRAL  
WITHIN DRIVER DISPLAY  
NO LANE DEPARTURE WARNING SYSTEM  
ELECTRIC ENGINE OIL PRESSURE GAUGE  
AM/FM RADIO WITH FRONT AND REAR  
AUXILIARY INPUTS AND J1939  
DASH MOUNTED RADIO  
(2) RADIO SPEAKERS IN CAB  
AM/FM ANTENNA MOUNTED ON FORWARD LH  
ROOF



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#### Description

ELECTRONIC MPH SPEEDOMETER WITH  
SECONDARY KPH SCALE, WITHOUT  
ODOMETER  
STANDARD VEHICLE SPEED SENSOR  
ELECTRONIC 3000 RPM TACHOMETER  
NFPA VEHICLE DATA RECORDER AND  
SEATBELT DISPLAY  
IDLE LIMITER, ELECTRONIC ENGINE  
(2) OVERHEAD MOUNTED LANYARD  
CONTROLS: (1) OFFICER AIR HORN AND (1)  
DRIVER AIR HORN  
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH  
DRIVER DISPLAY  
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR  
WITH DELAY  
MARKER LIGHT SWITCH INTEGRAL WITH  
HEADLIGHT SWITCH  
ONE VALVE PARKING BRAKE SYSTEM WITH  
WARNING INDICATOR  
SELF CANCELING TURN SIGNAL SWITCH WITH  
DIMMER, WASHER/WIPER AND HAZARD IN  
HANDLE  
INTEGRAL ELECTRONIC TURN SIGNAL  
FLASHER WITH HAZARD LAMPS OVERRIDING  
STOP LAMPS  
NO MISCELLANEOUS GAUGES

#### Design

PAINT: ONE SOLID COLOR

#### Color

CAB COLOR A: L3781EB VIPER RED ELITE BC  
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS  
PAINT  
NO FUEL TANK CABINET PAINT  
POWDER WHITE (N0006EA) FRONT  
WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)  
POWDER WHITE (N0006EA) REAR  
WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)  
STANDARD E COAT/UNDERCOATING

#### Certification / Compliance

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



**Prepared for:**  
Alexis Fire MY2017  
109 East Broadway St  
Alexis, IL 61412  
Phone: 309-482-3431

**Prepared by:**  
Duane Schaefer  
TRANSCHICAGO TRUCK  
GROUP  
776 N. YORK ROAD  
ELMHURST, IL 60126  
Phone: 630-279-0600 ext 609  
E-Mail:  
duaneschaefer@transchicago.com

#### Description

#### Secondary Factory Options

CORPORATE PDI CENTER IN-SERVICE AND  
OPTION INSTALLATION/MODIFICATION

#### Extended Warranty

TOWING EXTENDED/ROADSIDE SERVICE WARRANTY, 6  
MONTHS/UNLIMITED MILES/KM, \$550 CAP

#### Dealer Installed Options

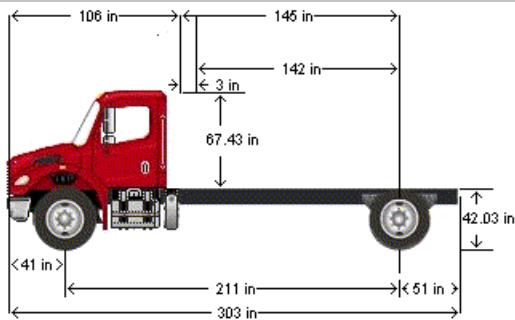
|   | Weight<br>Front | Weight<br>Rear |
|---|-----------------|----------------|
| MODEL YEAR 2017 SURCHARGE FOR M2-106<br>AND 108SD | 0               | 0              |
| Total Dealer Installed Options                    | 0 lbs           | 0 lbs          |



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## DIMENSIONS



## VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

|                                      |  |
|--------------------------------------|--|
| Model .....                          | M2106  |
| Wheelbase (545) .....                | 5350MM (211 INCH) WHEELBASE  |
| Rear Frame Overhang (552) .....      | 1300MM (51 INCH) REAR FRAME OVERHANG   |
| Fifth Wheel (578) .....              | NO FIFTH WHEEL   |
| Mounting Location (577) .....        | NO FIFTH WHEEL LOCATION  |
| Maximum Forward Position (in) .....  | 0  |
| Maximum Rearward Position (in) ..... | 0  |
| Amount of Slide Travel (in) .....    | 0  |
| Slide Increment (in) .....           | 0  |
| Desired Slide Position (in) .....    | 0.0  |
| Cab Size (829) .....                 | 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB   |
| Sleeper (682) .....                  | NO SLEEPER BOX/SLEEPER CAB   |
| Exhaust System (016) .....           | RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES |

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## TABLE SUMMARY - DIMENSIONS

| Dimensions   | Inches |
|--|--------|
| Bumper to Back of Cab (BBC)  | 106.3  |
| 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)                     | 145.4  |
| Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA) | 142.4  |
| 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  | 196.4  |
| Cab Height (CH)  | 67.4   |
| Wheelbase (WB)   | 211.0  |
| Frame Overhang (OH)  | 51.0   |
| Overall Length (OAL)   | 302.7  |
| Rear Axle Spacing  | 0.0    |
| Unladen Frame Height at Centerline of Rear Axle                    | 42.0   |

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)..... 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
Expected Front Axle(s) Load (lbs)..... 12000.0  
Expected Pusher Axle(s) Load (lbs)..... 0.0  
Expected Rear Axle(s) Load (lbs)..... 27000.0  
Expected Tag Axle(s) Load (lbs)..... 0.0  
Expected GVW (lbs) ..... 39000  
Expected GCW (lbs) ..... 0.0  
Front Axle (400)..... DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE  
Front Suspension (620) ..... 12,000# DUAL TAPERLEAF FRONT SUSPENSION  
Front Hubs (418) ..... CONMET PRESET PLUS IRON FRONT HUBS  
Front Disc Wheels (502) ..... ACCURIDE 28828 22.5X8.25 10-HUB PILOT 6.18 INSET 2-HAND HD STEEL DISC FRONT WHEELS  
Front Tires (093) ..... MICHELIN XZE2 11R22.5 14 PLY RADIAL FRONT TIRES  
Front Brakes (402)..... MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES  
Steering Gear (536)..... TRW THP-60 POWER STEERING  
Rear Axle (420) ..... RS-25-160 27,000# R-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE  
Rear Suspension (622)..... 27,000# FLAT LEAF SPRING REAR SUSPENSION WITH RADIUS ROD FOR FIRE/EMERGENCY SERVICE  
Rear Hubs (450) ..... CONMET PRESET PLUS IRON REAR HUBS  
Rear Disc Wheels (505)..... ACCURIDE 28828 22.5X8.25 10-HUB PILOT 2-HAND HD STEEL DISC REAR WHEELS  
Rear Tires (094) ..... MICHELIN XZY-3 12R22.5 16 PLY RADIAL REAR TIRES  
Rear Brakes (423) ..... MERITOR 16.5X7 P 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



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## TABLE SUMMARY - GVWR

|                                      | Front | Rear  |
|--------------------------------------|-------|-------|
| <b>Axle Component Weight Ratings</b> |       |       |
| Axles                                | 12000 | 27000 |
| Suspension                           | 12000 | 27000 |
| Hubs                                 | 14700 | 27000 |
| Brakes                               | 14600 | 31000 |
| Wheels                               | 16000 | 32000 |
| Tires                                | 12350 | 27120 |
| Power Steering                       | 13300 | N/A   |
| GAWR (per axle)                      | 12000 | 27000 |
| GAWR (per axle system)               | 12000 | 27000 |
| Expected Load (per axle system)      | 12000 | 27000 |
| <b>Vehicle GVWR Summary</b>          |       |       |
| Calculated GVWR                      | 39000 |       |
| Expected GVWR                        | 39000 |       |
| All weights displayed in pounds      |       |       |

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## F R A M E R B M

### VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545) .....5350MM (211 INCH) WHEELBASE  
 Frame Rails (546)..... 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI(546)  
 Yield Strength (psi) ..... 120000  
 Section Modulus (per rail) (cu in) .....21.6  
 RBM (per rail) (lbf-in) ..... 2590000  
 Inner Frame Reinforcement (547) .....NO INNER FRAME REINFORCEMENT  
 Outer Frame Reinforcement (548) ..... NO OUTER FRAME REINFORCEMENT

### TABLE SUMMARY - FRAME RBM

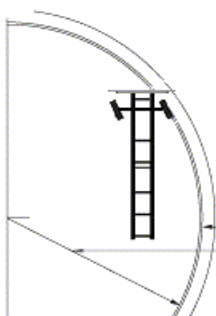
| Item                                 | Description / Value   |
|--------------------------------------|---|
| Wheelbase                            | 5350MM (211 INCH) WHEELBASE   |
| Frame                                | 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI |
| Inner Frame Reinforcement            | NO INNER FRAME REINFORCEMENT  |
| Outer Frame Reninforcement           | NO OUTER FRAME REINFORCEMENT  |
| Yield Strength (psi)                 | 120000  |
| Section Modulus - per rail (cu. in.) | 21.60   |
| Frame RBM - per rail (lbf-in)        | 2592000   |

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## TURNING RADIUS



Turning radius graphic and data provided for general estimate purposes only. For specific figures regarding your configuration, please contact your CAE representative.

|                            | Left Turn | Right Turn | Tolerance |
|----------------------------|-----------|------------|-----------|
| Wall to Wall Diameter (ft) | 57.3      | 49.2       | +/- 3.0   |
| Curb to Curb Diameter (ft) | 55.6      | 47.3       | +/- 3.0   |
| Turning Radius (ft)        | 27.3      | 23.2       | +/- 1.5   |

### VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model .....M2106  
 Cab Size (829)..... 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB  
 Wheelbase (545) .....5350MM (211 INCH) WHEELBASE  
 Front Tires (093)..... MICHELIN XZE2 11R22.5 14 PLY RADIAL FRONT TIRES  
   Width (in) ..... 11.2  
 Front Axle (400)..... DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE  
   Kingpin Intersection (in) ..... 71.5  
 Bumper (556) ..... THREE-PIECE 14 INCH CHROME STEEL BUMPER WITH COLLAPSIBLE ENDS AND LH WING CUTOUT FOR  
 FEDERAL MS100/ES100/ES100C SPEAKER  
   Width (in) ..... 93.5  
   Bumper Miter to Front Axle (in) ..... 21.458  
 Primary Steering Location (003) ..... LH PRIMARY STEERING LOCATION  
 Steering Gear (536) ..... TRW THP-60 POWER STEERING  
   Dual Steering Gear ..... NONE  
   Ram ..... NONE  
 Rear Axle (420) ..... RS-25-160 27,000# R-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE  
 Axle Spacing (624) ..... NO AXLE SPACING

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