A proposal for
MIDWEST FIRE EQUIPMENT REPAIR

Prepared by
I-ISTATE TRUCK CENTER
Chris Schrum

Oct 02, 2023

Freightliner M2 106 Plus



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

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

	Description	Weight Front	Weight Rear
Price Level			
	M2 PRL-28M (EFF:MY25 ORDERS)		
Data Version			
	SPECPRO21 DATA RELEASE VER 012		
Vehicle Configuration			
	M2 106 PLUS CONVENTIONAL CHASSIS	5,709	3,450
	2025 MODEL YEAR SPECIFIED		
	SET BACK AXLE - TRUCK		
	STRAIGHT TRUCK PROVISION, NON-TOWING		
	LH PRIMARY STEERING LOCATION		
General Service			
	TRUCK CONFIGURATION		
	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
	EPA EMISSIONS CERTIFICATION FOR 50 STATE REGISTRATION - CARB EXEMPT, FIRE AND EMERGENCY VEHICLES ONLY (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD OF DRIVER DOOR)		
	NO STATE/PROVINCE INITIAL REGISTRATION SELECTED		
	FIRE SERVICE		
	EMERGENCY VEHICLES 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 : 16000.0 lbs		

	Description	Weight Front	Weight Rear
	EXPECTED REAR DRIVE AXLE(S) LOAD : 44000.0 lbs		
	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 60000.0 lbs		
Truck Service			
	FIRE TANK - NO MAIN DRIVELINE DRIVEN SPLIT-SHAFT PTO/PUMP		
	MIDWEST FIRE		
	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in		
Engine			
	CUM L9 360EV HP @ 2200 RPM, 2200 GOV RPM, 1150 LB-FT @ 1200 RPM, R/F/E	640	30
Electronic Parameters			
	60 MPH ROAD SPEED LIMIT		
	CRUISE CONTROL SPEED LIMIT 5 MPH HIGHER THAN ROAD SPEED LIMIT		
	PTO MODE CANCEL VEHICLE SPEED - 5 MPH		
	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND		
	ONE REMOTE PTO SPEED		
	PTO SPEED 1 SETTING - 750 RPM		
	PTO MINIMUM RPM - 700		
	REGEN INHIBIT SPEED THRESHOLD - 5 MPH		
	PTO 1, NO SWITCH, TEM SUPPLIED REQUEST AND INTERLOCKS, WITH PTO CONNECTIONS, ENGAGE BEFORE DRIVING INTERLOCK		
Engine Equipment			
	EPA 2010/GHG 2024 CONFIGURATION		
	STANDARD OIL PAN		
	ENGINE MOUNTED OIL CHECK AND FILL		
	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	10	
	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES	10	
	BATTERY BOX FRAME MOUNTED		
	STANDARD BATTERY JUMPERS		

Description	Weight Front	Weight Rear
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		
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	2	
POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
PROGRESSIVE LOW VOLTAGE DISCONNECT AT 12.3 VOLTS FOR DESIGNATED CIRCUITS		
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 ENGINE INTEGRAL BRAKE WITH VARIABLE GEOMETRY TURBO ON/OFF	20	
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES	10	5
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER		
STANDARD EXHAUST SYSTEM LENGTH		
RH HORIZONTAL TAILPIPE, EXIT FORWARD OF REAR TIRES	20	20
6 GALLON DIESEL EXHAUST FLUID TANK		
100 PERCENT DIESEL EXHAUST FLUID FILL		
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
INBOARD MOUNTED DIESEL EXHAUST FLUID PUMP WITH ABOVE RAIL ROUTING FOR 6 GALLON DIESEL EXHAUST FLUID TANK, CUMMINS ENGINES		
STANDARD DIESEL EXHAUST FLUID TANK CAP		
AIR POWERED ON/OFF ENGINE FAN CLUTCH		
AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED		

	Description	Weight Front	Weight Rear
	CUMMINS SPIN ON FUEL FILTER		
	COMBINATION FULL FLOW/BYPASS OIL FILTER		
	1100 SQUARE INCH ALUMINUM RADIATOR	70	
	ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY 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	200	60
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 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		

	Description	Weight Front	Weight Rear
	ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
	ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED		
	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
	PUMP MODE INPUT ENABLED 3RD/4TH LOCKUP WIRED ON TCM INPUT AJ/BQ - ALLISON 5TH GEN TRANSMISSIONS		
	4TH RANGE INDICATION ON TCM OUTPUT C - ALLISON 5TH GEN TRANSMISSIONS		
	QUICKFIT BODY LIGHTING CONNECTOR AT END OF FRAME, WITH BLUNTCUTS		
	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR		
	CHELSEA 870XEFJP-B5XV		
	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON		
	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
	HEAVY DUTY ELECTRONIC TRANSMISSION SHIFT CONTROL, COLUMN MOUNTED		
	TRANSMISSION PROGNOSTICS - ENABLED 2013		
	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		
Front Axle and Equipment			
	DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	190	
	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10	
	FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING		
	CAST IRON OUTBOARD FRONT BRAKE DRUMS		
	FRONT OIL SEALS		

	Description	Weight Front	Weight Rear
	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
	STANDARD SPINDLE NUTS FOR ALL AXLES		
	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
	TRW TAS-85 POWER STEERING	40	
	POWER STEERING PUMP		
	2 QUART SEE THROUGH POWER STEERING RESERVOIR		
	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE		
Front Suspension			
	16,000# TAPERLEAF FRONT SUSPENSION	200	
	MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION		
	FRONT SHOCK ABSORBERS		
Rear Axle and Equipment			
	MT-44-14X 44,000# R-SERIES TANDEM REAR AXLE		2,580
	5.86 REAR AXLE RATIO		
	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	20	20
	MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
	(1) INTERAXLE LOCK VALVE FOR TANDEM DRIVE AXLES		
	INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH		
	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
	FIRE AND EMERGENCY SEVERE SERVICE NON-ASBESTOS REAR BRAKE LINING		
	BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)		
	CAST IRON OUTBOARD REAR BRAKE DRUMS		-20
	REAR OIL SEALS		
	WABCO TRISTOP D LONGSTROKE 2-DRIVE AXLE SPRING PARKING CHAMBERS		20
	HALDEX AUTOMATIC REAR SLACK ADJUSTERS		

	Description	Weight Front	Weight Rear
	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE		
Rear Suspension			
	TUFTRAC GEN2 46,000# REAR SPRING SUSPENSION		820
	9.5 INCH NOMINAL RIDE HEIGHT (460MM GLOBAL REFERENCE HEIGHT)		
	AXLE CLAMPING GROUP		
	55 INCH AXLE SPACING		
	FORE/AFT AND TRANSVERSE CONTROL RODS		
	REAR SHOCK ABSORBERS - ONE AXLE		
Pusher / Tag Equipment			
	NO PUSHER/TAG BRAKE DUST SHIELDS		
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 AND 85 PSI PRESSURE PROTECTION FOR AIR HORN(S)		
	STD U.S. FRONT BRAKE VALVE		
	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER		
	AIR DRYER MOUNTED INBOARD ON LH RAIL		
	MOUNTED 40"+ AFT OF BOC		
	STEEL AIR BRAKE RESERVOIRS, NO TRIPLE OR TORPEDO TANKS		
	NO TANKS FROM BOC TO 40" AFT		
	BW DV-2 AUTO DRAIN VALVE WITHOUT HEATER ON ALL TANK(S)		
Trailer Connections			
	NO TRAILER AIR HOSE		
	NO AIR HOSE HANGER		
	NO TRAILER ELECTRICAL CABLE		
Wheelbase & Frame			

	Description	Weight Front	Weight Rear
	5750MM (226 INCH) WHEELBASE		
	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	270	120
	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	170	390
	2800MM (110 INCH) REAR FRAME OVERHANG		
	FRAME OVERHANG RANGE: 101 INCH TO 110 INCH	-90	380
	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 160.83 in		
	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 157.83 in		
	CALC'D FRAME LENGTH - OVERALL : 373.98 in		
	CALCULATED FRAME SPACE LH SIDE : 103.78 in		
	CALCULATED FRAME SPACE RH SIDE : 105.88 in		
	SQUARE END OF FRAME		
	FRONT CLOSING CROSSMEMBER		
	LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE CROSSMEMBER	-12	
	STANDARD CROSSMEMBER BACK OF TRANSMISSION		
	STANDARD MIDSHIP #1 CROSSMEMBER(S); FIRST MIDSHIP MOUNTED 36.0 INCHES BACK OF CAB		
	NO CROSSMEMBERS 40" BOC		
	STANDARD REARMOST CROSSMEMBER		
	HEAVY DUTY SUSPENSION CROSSMEMBER		30
Chassis Equipment			
	THREE-PIECE 14 INCH CHROME STEEL BUMPER WITH COLLAPSIBLE ENDS AND LH WING CUTOUT FOR FEDERAL MS100/ES100/ES100C SPEAKER	30	
	FRONT TOW HOOKS - FRAME MOUNTED	15	
	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
	NO MUDFLAP BRACKETS		
	NO REAR MUDFLAPS		
	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		

	Description	Weight Front	Weight Rear
	EXTERIOR HARNESSES WRAPPED IN ABRASION TAPE		
	FACTORY INSTALLED BENDIX NEXT GEN SMARTIRE TIRE PRESSURE MONITORING SYSTEM WITH WHEEL RIM MOUNTED NEXT GEN SENSORS AND INTEGRATED IN DASH	6	6
	D15-28195-000 CENTER PUNCH TO MARK CENTERLINE OF REAR SUSPENSION ON TOP FLANGE OF FRAME		
	2D DXF/PDF VEHICLE DRAWING		
	DON@MIDWESTFIRE.COM		
	TANK BODY 1501 TO 3000 GALLONS		
	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD		
Fifth Wheel			
	NO FIFTH WHEEL		
Fuel Tanks			
	50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	20	
	RECTANGULAR FUEL TANK(S)		
	POLISHING OF FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
	FUEL TANK(S) FORWARD		
	15 GALLONS ADDITIONAL FUEL		
	POLISHED STAINLESS STEEL STEP FINISH		
	FUEL TANK CAP(S)		
	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR	-5	
	EQUIFLO INBOARD FUEL SYSTEM		
	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
	MICHELIN X LINE ENERGY Z 315/80R22.5 20 PLY RADIAL FRONT TIRES	50	
	MICHELIN XDN2 12R22.5 16 PLY RADIAL REAR TIRES		280
Hubs			
	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		

	Description	Weight Front	Weight Rear
Wheels			
	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM FRONT WHEELS	-28	
	ACCURIDE 43644 ACCU-LITE ALUMINUM OUTSIDE, 28828 HD STEEL INSIDE; 22.5X8.25 10-HUB PILOT DISC REAR WHEELS		-88
	POLISHED FRONT WHEELS; OUTSIDE ONLY		
	POLISHED REAR WHEELS; BOTH SIDES OF OUTER WHEELS ONLY		
	BENDIX SMARTIRE TIRE PRESSURE MONITORING SYSTEM WHEEL/RIM MOUNTED SENSORS, ALL AXLES		16
	FRONT WHEEL MOUNTING NUTS		
	REAR WHEEL MOUNTING NUTS		
Cab Exterior			
	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
	AIR CAB MOUNTING		
	SAFETY YELLOW LH AND RH INTERIOR GRAB HANDLES AND LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT		
	HOOD MOUNTED CHROMED PLASTIC GRILLE		
	CHROME HOOD MOUNTED AIR INTAKE GRILLE		
	FIBERGLASS HOOD		
	CAB FLOOR, TOE BOARD AND FIREWALL HEAT SHIELD	5	
	DUAL 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR HORNS	8	
	DUAL ELECTRIC HORNS		
	DUAL HORN SHIELDS		
	REAR LICENSE PLATE MOUNT END OF FRAME		
	LED HEADLIGHT ASSEMBLY AND INCANDESCENT MARKER/TURN LAMP WITH CHROME BEZEL		
	LED AERODYNAMIC MARKER LIGHTS		
	HEADLIGHTS ON WITH WIPERS, WITH DAYTIME RUNNING LIGHTS		
	OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH SEPARATE STOP/TAIL WIRES TO 7 FEET BEYOND END OF FRAME		-5
	STANDARD FRONT TURN SIGNAL LAMPS		

	Description	Weight Front	Weight Rear
	AUTOMATIC ON/OFF, ENGINE COMPARTMENT, HOOD ACTIVATED WORK LIGHT WITH MANUAL OVERRIDE	1	
	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		
	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER		
	63X14 INCH TINTED REAR WINDOW		
	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
	RH AND LH ELECTRIC POWERED WINDOWS		
	1-PIECE ROPED-IN SOLAR GREEN GLASS WINDSHIELD		
	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		
Cab Interior			
	RUGGED TRIM PACKAGE		
	GRAY & CARBON VINYL INTERIOR "RUGGED"		
	CARBON WITH PREMIUM GUNMETAL ACCENT (RUGGED)		
	MOLDED PLASTIC DOOR PANEL		
	MOLDED PLASTIC DOOR PANEL		
	BLACK MATS WITH SINGLE INSULATION		
	(1)DASH MOUNTED 12V POWER OUTLET (1)DASH MOUNTED DUAL 2.1 AMP USB-C CHARGER		
	FORWARD ROOF MOUNTED CONSOLE		
	CENTER STORAGE CONSOLE MOUNTED ON BACKWALL	20	
	LH AND RH KICKPLATES		
	DIGITAL ALARM CLOCK IN DRIVER DISPLAY		
	(2) CUP HOLDERS LH AND RH DASH		
	M2/SD DASH		
	HEATER, DEFROSTER AND AIR CONDITIONER		
	STANDARD HVAC DUCTING		

	Description	Weight Front	Weight Rear
	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
	STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES AT SUPPLY LINES ONLY		
	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR		
	BINARY CONTROL, R-134A		
	PREMIUM INSULATION		
	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
	PREMIUM LED CAB LIGHTING		
	NO SECURITY DEVICE		
	ALL UNIT(S) KEYED ALIKE WITH CUSTOMER SPECIFIED KEY NUMBER FT1013		
	KEY QUANTITY OF 2		
	LH AND RH ELECTRIC DOOR LOCKS WITH AUTO UNLOCK FEATURE WHEN DOOR IS SET FROM OPEN TO CLOSED POSITION		
	SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT WITH NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR	50	
	SEATS INC 911 UNIVERSAL SERIES HIGH BACK NON SUSPENSION PASSENGER SEAT WITH UNDERSEAT STORAGE AND NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR	25	10
	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER		
	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER		
	NFPA 1901-2009 HIGH VISIBILITY ORANGE SEAT BELTS		
	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
	4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES		
	LEATHER IS POROUS AND HARD TO DISINFECT.		
	DRIVER AND PASSENGER INTERIOR SUN VISORS		
Instruments & Controls			
	FULLY CONFIGURABLE CENTER INSTRUMENT PANELS		

Description	Weight Front	Weight Rear
ENGINE REMOTE INTERFACE WITHOUT INTERLOCKS		
BRIGHT ARGENT FINISH GAUGE BEZELS		
LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE		
ELECTRONIC AIR RESTRICTION INDICATOR DISPLAYED IN DRIVER DISPLAY		
97 DB BACKUP ALARM		3
ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES		
IGNITION SWITCH WITH NON REMOVABLE KEY		
PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY		
DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY		
HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
2 INCH ELECTRIC FUEL GAUGE		
ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE		
QUICKFIT POWERTRAIN INTERFACE CONNECTOR UNDER CAB WITH CAPS		
NO ADDITIONAL EXTRA SWITCH ACCUATORS		
QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) UNDER CAB WITH BLUNTCUTS		
ENGINE REMOTE INTERFACE CONNECTOR AT POWERTRAIN INTERFACE CONNECTOR		
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
DIGITAL TRANSMISSION OIL TEMPERATURE IN DRIVER DISPLAY		
ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER		
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE		
NO OBSTACLE DETECTION SYSTEM		
NO DR ASSIST SYSTEM		
ELECTRONIC STABILITY CONTROL		

Description	Weight Front	Weight Rear
NO LANE DEPARTURE WARNING SYSTEM		
ELECTRIC ENGINE OIL PRESSURE GAUGE		
QUICKFIT PROGRAMMABLE INTERFACE MODULE	10	
RAM MOUNT OVERHEAD CONSOLE WITH POWER AND GROUND		
AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH, USB AND AUXILIARY INPUTS, J1939		
ROOF/OVERHEAD CONSOLE MOUNTED RADIO		
(2) RADIO SPEAKERS IN CAB		
NO AM/FM RADIO ANTENNA		
SHARKFIN MULTI-BAND ANTENNA: AM/FM/WEATHERBAND, WIFI/BLUETOOTH, SDAR/SIRIUSXM, GNSS/GPS		
STANDARD RADIO WIRING WITH STEERING WHEEL CONTROLS		
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
STANDARD VEHICLE SPEED SENSOR		
ELECTRONIC 3000 RPM TACHOMETER		
DETROIT CONNECT PLATFORM HARDWARE		
3 YEARS DAIMLER CONNECTIVITY BASE PACKAGE (FEATURES VARY BY MODEL) POWERED BY DETROIT CONNECT		
TMC RP1226 ACCESSORY CONNECTOR LOCATED BEHIND PASSENGER SIDE REMOVEABLE DASH PANEL		
IGNITION SWITCH CONTROLLED ENGINE STOP		
PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS ONLY		
(1) RH FOOT SWITCH WITH DASH SWITCH FOR HORN BUTTON TO CONTROL AIR HORN, DEFAULT TO ELECTRIC <85 PSI		
NO TRAILER HAND CONTROL BRAKE VALVE		
DIGITAL TURBO AIR PRESSURE IN DRIVER DISPLAY		
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS		

	Description	Weight Front	Weight Rear	
	ALTERNATING FLASHING HEADLAMP SYSTEM WITH DASH SWITCH AND NO PARK BRAKE INTERLOCK			
	ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR			
	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT			
	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH 40 AMP (20 AMP PER SIDE) TRAILER LAMP CAPACITY			
Design				
	PAINT: ONE SOLID COLOR			
Color				
	CAB COLOR A: L0762EY MED RED ELITE EY			
	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			
	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)			
	NO CAB/BODY EXTERIOR DECALS			
	STANDARD E COAT/UNDERCOATING			
Certification / Compliance				
	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			

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

Weight Summary

	Weight Front	Weight Rear	Total Weight
Factory Weight+	7698 lbs	8127 lbs	15825 lbs
Total Weight+	7698 lbs	8127 lbs	15825 lbs

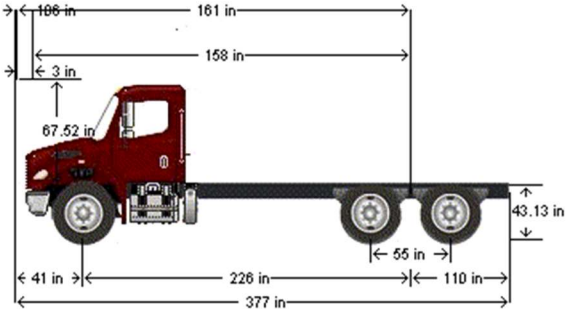
Extended Warranty

TOWING: 6 MONTHS/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE $750 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.

D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model M2106
Wheelbase (545) ..... 5750MM (226 INCH) WHEELBASE
Rear Frame Overhang (552) ..... 2800MM (110 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

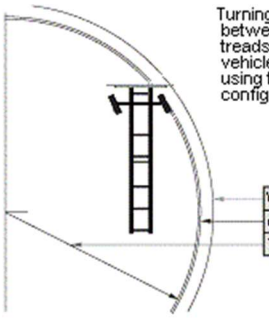
Cab Size (829) ..... 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682) ..... NO SLEEPER BOX/SLEEPERCAB
Exhaust System (016) ..... RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES

TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	106.3
Bumper to Centerline of Front Axle (BA)	40.7
Front Axle to Back of Cab (AC)	65.6
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	160.8
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	157.8
Back of Cab Protrusions (Exhaust/Intake) (CP)	2.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	271.0
Cab Height (CH)	67.5
Wheelbase (WB)	226.4
Frame Overhang (OH)	110.2
Overall Frame Length	374.0
Overall Length (OAL)	377.3
Rear Axle Spacing	55.0
Unladen Frame Height at Centerline of Rear Axle	43.1

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

T U R N I N G R A D I U S



Turning radius graphic and data provided strictly for comparisons between model configurations. Weather, road surfaces, and tire treads affect the results. It is strongly suggested that actual vehicles be measured before constructing any roads/driveways using this information. For specific figures regarding your configuration, please contact your CAE representative.

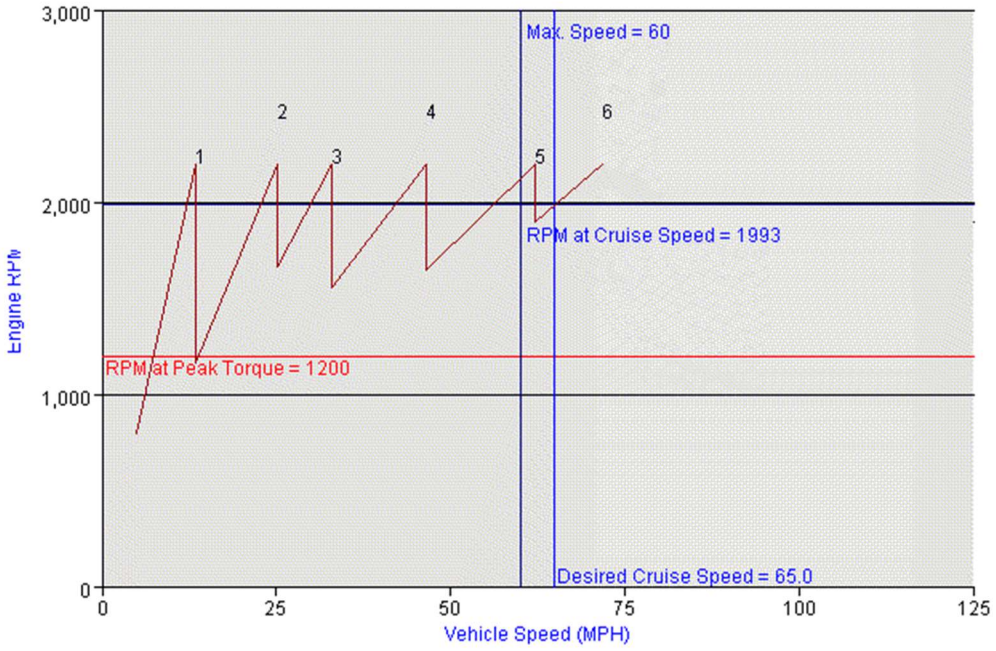
	Dimensions	Tolerance
Wall to Wall Diameter (ft)	69.6	+/- 3.0
Curb to Curb Diameter (ft)	68.2	+/- 3.0
Turning Radius (ft)	33.6	+/- 1.5

VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model M2106
Cab Size (829)..... 106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Wheelbase (545) .....5750MM (226 INCH) WHEELBASE
Front Tires (093)..... MICHELIN X LINE ENERGY Z 315/80R22.5 20 PLY RADIAL FRONT TIRES
  Width (in) 12.4
Front Axle (400)..... DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
  Kingpin Intersection (in) 71
Bumper (556) ..... THREE-PIECE 14 INCH CHROME STEEL BUMPER WITH COLLAPSIBLE ENDS AND LH WING CUTOUT FOR FEDERAL MS100/ES100/ES100C SPEAKER
  Width (in) 92.5
  Bumper Miter to Front Axle (in) 21.458
Primary Steering Location (003) ..... LH PRIMARY STEERING LOCATION
Steering Gear (536).....TRW TAS-85 POWER STEERING
  Dual Steering Gear .....NONE
  Ram.....NONE
Rear Axle (420) ..... MT-44-14X 44,000# R-SERIES TANDEM REAR AXLE
Axle Spacing (624) .....55 INCH AXLE SPACING

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

S H I F T C H A R T



VEHICLE SPECIFICATIONS SUMMARY - SHIFT CHART

Model	M2106
Cab Size (829)	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph)	65.0
Engine (101)	CUM L9 360EV HP @ 2200 RPM, 2200 GOV RPM, 1150 LB-FT @ 1200 RPM, R/F/E
RPM at Peak Torque	1200
Governed RPM	2200
Transmission (342)	ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio: LL	N/A
Gear Ratio: L	N/A
Gear Ratio: 1	3.49
Gear Ratio: 2	1.86

Gear Ratio: 3 ..... 1.41
Gear Ratio: 4 1
Gear Ratio: 5 ..... 0.75
Gear Ratio: 6 ..... 0.65
Gear Ratio: 7 ..... N/A
Gear Ratio: 8 ..... N/A
Gear Ratio: 9 ..... N/A
Gear Ratio: 10 ..... N/A
Gear Ratio: 11 ..... N/A
Gear Ratio: 12 ..... N/A
Gear Ratio: 13 ..... N/A
Gear Ratio: 14 ..... N/A
Gear Ratio: 15 ..... N/A
Gear Ratio: 16 ..... N/A
Gear Ratio: 17 ..... N/A
Gear Ratio: 18 ..... N/A
Auxiliary Transmission (352) ..... NO AUXILIARY TRANSMISSION
Low Gear Ratio ..... N/A
High Gear Ratio ..... N/A
Transfer Case (373) ..... NO TRANSFER CASE
Low Gear Ratio ..... N/A
High Gear Ratio ..... N/A
Rear Axle (420) ..... MT-44-14X 44,000# R-SERIES TANDEM REAR AXLE
Number of Speeds 1
Rear Axle Gear Ratio(s) ..... 5.86 REAR AXLE RATIO
Rear Tires (094) ..... MICHELIN XDN2 12R22.5 16 PLY RADIAL REAR TIRES
Revolutions per Mile 483

TABLE SUMMARY - SHIFT CHART

Transmission Gear	Transmission Gear Ratio	Rear Axle Ratio	Overall Gear Ratio	Percent Split	RPM After Shift	MPH at Peak Torque RPM	MPH at Governed
1	3.49	5.86	20.45	N/A	800	7.3	13.4
2	1.86	5.86	10.90	87.6	1172	13.7	25.1
3	1.41	5.86	8.26	31.9	1668	18.0	33.1
4	1.00	5.86	5.86	41.0	1560	25.4	46.6
5	0.75	5.86	4.40	33.3	1650	33.9	62.2
6	0.65	5.86	3.81	15.4	1907	39.1	71.7

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