

Prepared for:
Jeff Shiray
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1769 Georgetown Rd
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Phone: 330-342-9246

Prepared by:
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A proposal for
ODOT City of Hudson Oh

Prepared by
Valley Freightliner & Western Star
Greg Simonic

Jan 19, 2019

Freightliner M2 106



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



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

Data Code	Description	Weight Front	Weight Rear
Price Level			
PRL-18M	M2 PRL-18M (EFF:04/17/18)		
Data Version			
DRL-002	SPECPRO21 DATA RELEASE VER 002		
Vehicle Configuration			
001-172	M2 106 CONVENTIONAL CHASSIS	5,709	3,503
004-220	2020 MODEL YEAR SPECIFIED		
002-004	SET BACK AXLE - TRUCK		
019-001	TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10
003-001	LH PRIMARY STEERING LOCATION		
General Service			
AA1-003	TRUCK/TRAILER CONFIGURATION		
AA6-002	DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)		
A85-010	UTILITY/REPAIR/MAINTENANCE SERVICE		
A84-1GM	GOVERNMENT BUSINESS SEGMENT		
AA4-011	FIXED LOAD COMMODITY		
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS		
AB1-008	MAXIMUM 8% EXPECTED GRADE		
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
995-091	MEDIUM TRUCK WARRANTY		
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 12000.0 lbs		
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 21000.0 lbs		
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 33000.0 lbs		
A70-99D	EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs		
Truck Service			
AA3-006	UTILITY BODY		



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Data Code	Description	Weight Front	Weight Rear
AF3-1EN	ALTEC		
AF7-99D	EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in		

Engine

101-21U CUM B6.7 250 HP @ 2400 RPM, 2600 GOV, 660
 LB/FT @ 1600 RPM

Electronic Parameters

79A-070 70 MPH ROAD SPEED LIMIT
 79B-000 CRUISE CONTROL SPEED LIMIT SAME AS ROAD
 SPEED LIMIT
 79M-001 PTO MODE BRAKE OVERRIDE - SERVICE
 BRAKE APPLIED
 79P-002 PTO RPM WITH CRUISE SET SWITCH - 700 RPM
 79Q-003 PTO RPM WITH CRUISE RESUME SWITCH - 800
 RPM
 79S-001 PTO MODE CANCEL VEHICLE SPEED - 5 MPH
 79U-007 PTO GOVERNOR RAMP RATE - 250 RPM PER
 SECOND
 79V-001 FUEL DOSING OF AFTERTREATMENT ENABLED
 IN PTO MODE-CLEANS HYDROCARBONS AT
 HIGH TEMPERATURES ONLY
 80G-002 PTO MINIMUM RPM - 700
 80J-001 REGEN INHIBIT SPEED THRESHOLD - 0 MPH

Engine Equipment

99C-017 2016 ONBOARD DIAGNOSTICS/2010
 EPA/CARB/FINAL GHG17 CONFIGURATION
 99D-010 NO 2008 CARB EMISSION CERTIFICATION
 13E-001 STANDARD OIL PAN
 105-001 ENGINE MOUNTED OIL CHECK AND FILL
 133-004 ONE PIECE VALVE COVER
 014-099 SIDE OF HOOD AIR INTAKE WITH FIREWALL
 MOUNTED DONALDSON AIR CLEANER
 124-1E1 DR 12V 200 AMP 28-SI QUADRAMOUNT PAD
 ALTERNATOR WITH REMOTE BATTERY VOLT
 SENSE
 292-208 (2) DTNA GENUINE, FLOODED STARTING, MIN
 2250CCA, 390RC, THREADED STUD BATTERIES
 290-017 BATTERY BOX FRAME MOUNTED
 281-001 STANDARD BATTERY JUMPERS
 282-001 SINGLE BATTERY BOX FRAME MOUNTED LH
 SIDE UNDER CAB
 291-017 WIRE GROUND RETURN FOR BATTERY CABLES
 WITH ADDITIONAL FRAME GROUND RETURN
 289-001 NON-POLISHED BATTERY BOX COVER



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	Data Code	Description	Weight Front	Weight Rear
	87P-001	CAB AUXILIARY POWER CABLE	5	
	295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2	
	107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE		
	108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR		
	131-013	AIR COMPRESSOR DISCHARGE LINE		
	152-041	ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
	128-076	CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH	20	
	016-1C3	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE		
	28F-002	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH		
	239-001	STANDARD EXHAUST SYSTEM LENGTH		
	237-052	RH STANDARD HORIZONTAL TAILPIPE		
	23U-001	6 GALLON DIESEL EXHAUST FLUID TANK		
	30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL		
	43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
	23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
	43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP		
	273-058	AIR POWERED ON/OFF ENGINE FAN CLUTCH		
	276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED		
	110-003	CUMMINS SPIN ON FUEL FILTER		
	118-001	FULL FLOW OIL FILTER		
N	266-100	700 SQUARE INCH ALUMINUM RADIATOR		
	103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT		
	171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
	172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
	270-016	RADIATOR DRAIN VALVE		
	168-002	LOWER RADIATOR GUARD		
	138-010	PHILLIPS-TEMRO 750 WATT/115 VOLT BLOCK HEATER	4	



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Data Code	Description	Weight Front	Weight Rear
140-053	BLACK PLASTIC ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
134-001	ALUMINUM FLYWHEEL HOUSING		
132-004	ELECTRIC GRID AIR INTAKE WARMER		
155-057	DELCO 12V 29MT STARTER WITH INTEGRATED MAGNETIC SWITCH		

Transmission

342-582	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	200	60
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Transmission Equipment

343-339	ALLISON VOCATIONAL PACKAGE 223 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODELS RDS, HS, MH AND TRV		
84B-012	ALLISON VOCATIONAL RATING FOR ON/OFF HIGHWAY APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES		
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY		
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84J-000	ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84K-000	ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE		
84L-000	LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE		
84N-000	NEUTRAL AT STOP - DISABLED, FUELSense - DISABLED		



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Data Code	Description	Weight Front	Weight Rear
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES		
353-065	VEHICLE INTERFACE WIRING CONNECTOR WITH BLUNT CUTS, AT BACK OF CAB		
34C-001	ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED		
362-035	CUSTOMER INSTALLED CHELSEA 277 SERIES PTO		
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION		
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN		
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED		
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013		
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK		
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)		

Front Axle and Equipment

400-1A6	DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE		
402-020	MERITOR 15X4 Q+ CAM FRONT BRAKES		
403-002	NON-ASBESTOS FRONT BRAKE LINING		
419-023	CONMET CAST IRON FRONT BRAKE DRUMS		
427-001	FRONT BRAKE DUST SHIELDS	5	
409-006	FRONT OIL SEALS		
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES		
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
536-050	TRW THP-60 POWER STEERING		
539-003	POWER STEERING PUMP		
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR		
40T-001	ORGANIC SAE 80/90 FRONT AXLE LUBE		

Front Suspension

620-002	12,000# FLAT LEAF FRONT SUSPENSION	210	
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		



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Data Code	Description	Weight Front	Weight Rear
410-998	NO FRONT SHOCK ABSORBERS	-30	
Rear Axle and Equipment			
420-009	RS-21-160 21,000# R-SERIES SINGLE REAR AXLE		180
421-614	6.14 REAR AXLE RATIO		
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-20	-20
452-001	DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		
878-018	(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE		
87B-004	BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH		
423-020	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
433-002	NON-ASBESTOS REAR BRAKE LINING		
434-012	BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)		
451-023	CONMET CAST IRON REAR BRAKE DRUMS		
425-002	REAR BRAKE DUST SHIELDS		5
440-006	REAR OIL SEALS		
426-100	WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		
428-002	MERITOR AUTOMATIC REAR SLACK ADJUSTERS		
41T-001	ORGANIC SAE 80/90 REAR AXLE LUBE		
Rear Suspension			
622-003	23,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD		120
621-001	SPRING SUSPENSION - NO AXLE SPACERS		
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
623-005	FORE/AFT CONTROL RODS		
Brake System			
018-002	AIR BRAKE PACKAGE		
490-100	WABCO 4S/4M ABS		
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
904-001	FIBER BRAID PARKING BRAKE HOSE		
412-001	STANDARD BRAKE SYSTEM VALVES		



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46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM		
413-002	STD U.S. FRONT BRAKE VALVE		
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
480-088	WABCO SYSTEM SAVER HP WITH INTEGRAL AIR GOVERNOR AND HEATER		
479-012	AIR DRYER MOUNTED UNDER HOOD		
460-001	STEEL AIR BRAKE RESERVOIRS		
607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD		
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		

Trailer Connections

914-001	AIR CONNECTIONS TO END OF FRAME WITH GLAD HANDS FOR TRUCK AND NO DUST COVERS
296-026	PRIMARY CONNECTOR/RECEPTACLE WIRED FOR SEPARATE STOP/TURN, CENTER PIN POWERED THROUGH IGNITION WITH STOP SIGNAL PREWIRE PACKAGE
297-001	SAE J560 7-WAY PRIMARY TRAILER CABLE RECEPTACLE MOUNTED END OF FRAME
335-004	UPGRADED CHASSIS MULTIPLEXING UNIT
32A-002	UPGRADED BULKHEAD MULTIPLEXING UNIT

Wheelbase & Frame

545-380	3800MM (150 INCH) WHEELBASE		
546-101	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	-190	160
552-030	1600MM (63 INCH) REAR FRAME OVERHANG		
55W-006	FRAME OVERHANG RANGE: 61 INCH TO 70 INCH		
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 84.05 in		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 81.05 in		
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 251.57		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 84.45 in		
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 49.33 in		
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 154.38 in		
553-001	SQUARE END OF FRAME		
550-001	FRONT CLOSING CROSSMEMBER		



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Data Code	Description	Weight Front	Weight Rear
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER		
561-001	STANDARD CROSSMEMBER BACK OF TRANSMISSION		
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)		
572-001	STANDARD REARMOST CROSSMEMBER		
565-001	STANDARD SUSPENSION CROSSMEMBER		
Chassis Equipment			
556-1AP	THREE-PIECE 14 INCH PAINTED STEEL BUMPER WITH COLLAPSIBLE ENDS	30	
558-001	FRONT TOW HOOKS - FRAME MOUNTED	15	
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS		
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
Fuel Tanks			
204-215	50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	20	
218-005	RECTANGULAR FUEL TANK(S)		
215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
212-007	FUEL TANK(S) FORWARD		
664-001	PLAIN STEP FINISH		
205-001	FUEL TANK CAP(S)		
122-1J1	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR, HAND PRIMER AND 12 VOLT PREHEATER"	-5	
216-020	EQUIFLO INBOARD FUEL SYSTEM		
11F-998	NO NATURAL GAS VEHICLE FUEL TANK VENT LINE/STACK		
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
Tires			
093-2DH	MICHELIN X LINE ENERGY D 11R22.5 14 PLY RADIAL FRONT TIRES	34	
094-0GK	MICHELIN XDN2 11R22.5 14 PLY RADIAL REAR TIRES		72
Hubs			
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS		

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Wheels			
502-1F2	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 6.20 INSET 2-HAND STEEL DISC FRONT WHEELS		
505-1F2	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 6.20 INSET 2-HAND STEEL DISC REAR WHEELS		
496-011	FRONT WHEEL MOUNTING NUTS		
497-011	REAR WHEEL MOUNTING NUTS		
Cab Exterior			
829-071	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB		
650-008	AIR CAB MOUNTING		
705-012	CAB ROOF REINFORCEMENTS FOR ROOF MOUNTED COMPONENTS	2	
754-008	2-1/2 INCH FENDER EXTENSIONS	10	
678-067	SAFETY YELLOW LH AND RH INTERIOR GRAB HANDLES AND LH AND RH EXTERIOR NON-SLIP GRAB HANDLES		
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE		
65X-011	MOLD-IN COLOR HOOD MOUNTED AIR INTAKE GRILLE		
644-004	FIBERGLASS HOOD		
726-002	DUAL ELECTRIC HORNS		
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME		
575-001	REAR LICENSE PLATE MOUNT END OF FRAME		
312-038	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL		
302-001	(5) AMBER MARKER LIGHTS		
311-001	DAYTIME RUNNING LIGHTS		
294-001	INTEGRAL STOP/TAILO/BACKUP LIGHTS		
300-015	STANDARD FRONT TURN SIGNAL LAMPS		
744-1BM	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS		
797-001	DOOR MOUNTED MIRRORS		
796-001	102 INCH EQUIPMENT WIDTH		
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS		
729-001	STANDARD SIDE/REAR REFLECTORS		
275-063	2-STAGE ELECTRIC HORN AND HAZARD LAMP ALERT CONTROLLED BY PARTICULATE FILTER REGENERATION REQUIRED STATUS		
768-043	63X14 INCH TINTED REAR WINDOW		



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661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS		
654-027	RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)	4	
663-013	TINTED WINDSHIELD		
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED		
Cab Interior			
707-1AK	OPAL GRAY VINYL INTERIOR		
706-013	MOLDED PLASTIC DOOR PANEL		
708-013	MOLDED PLASTIC DOOR PANEL		
772-006	BLACK MATS WITH SINGLE INSULATION		
785-001	DASH MOUNTED ASH TRAYS AND LIGHTER		
694-010	IN DASH STORAGE BIN		
696-012	CENTER STORAGE CONSOLE MOUNTED ON BACKWALL	20	
693-008	PLASTIC MANIFEST BOX - LH AND RH DOORS		
742-007	(2) CUP HOLDERS LH AND RH DASH		
680-006	GRAY/CHARCOAL FLAT DASH		
860-004	SMART SWITCH EXPANSION MODULE		
700-002	HEATER, DEFROSTER AND AIR CONDITIONER		
701-001	STANDARD HVAC DUCTING		
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
170-015	STANDARD HEATER PLUMBING		
130-033	DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
702-002	BINARY CONTROL, R-134A		
739-033	STANDARD INSULATION		
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES		
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM		
324-011	DOME DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF		
655-005	LH AND RH ELECTRIC DOOR LOCKS		
284-023	(1) 12 VOLT POWER SUPPLY IN DASH		
756-1J3	BASIC HIGH BACK AIR SUSPENSION DRIVER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	30	
760-1J3	BASIC HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH MECHANICAL LUMBAR AND INTEGRATED CUSHION EXTENSION	25	10



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759-005	DUAL DRIVER AND PASSENGER SEAT ARMRESTS	8	
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS		
758-036	VINYL WITH VINYL INSERT DRIVER SEAT		
761-036	VINYL WITH VINYL INSERT PASSENGER SEAT		
763-104	HIGH VISIBILITY ORANGE SEAT BELTS WITH DRIVER INDICATOR LIGHT AND AUDIBLE ALARM		
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	10	
540-015	4-SPOKE 18 INCH (450MM) STEERING WHEEL		
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

732-004	GRAY DRIVER INSTRUMENT PANEL		
734-004	GRAY CENTER INSTRUMENT PANEL		
87L-001	ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK		
870-001	BLACK GAUGE BEZELS		
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
840-002	2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
198-025	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS		
721-001	97 DB BACKUP ALARM		3
149-013	ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL		
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
811-042	ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED		
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
844-001	2 INCH ELECTRIC FUEL GAUGE		
148-073	ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE		
163-001	ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB		
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE		



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Data Code	Description	Weight Front	Weight Rear
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY		
372-065	(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP - PARK BRAKE INTERLOCK FOR CUSTOMER INSTALLED PTO	5	
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE		
679-001	OVERHEAD INSTRUMENT PANEL		
35M-006	SMARTPLEX HUB MODULE WITH OVERHEAD SWITCH MOUNTING, DRIVER SIDE AND CENTER CONSOLE (12 SWITCH SLOTS)	44	
746-115	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939	10	
747-001	DASH MOUNTED RADIO		
750-002	(2) RADIO SPEAKERS IN CAB		
753-008	AM/FM ANTENNA MOUNTED ON LH SIDE MIRROR		
748-006	POWER AND GROUND WIRING PROVISION OVERHEAD		
749-001	ROOF/OVERHEAD CONSOLE CB RADIO PROVISION		
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER		
817-001	STANDARD VEHICLE SPEED SENSOR		
812-001	ELECTRONIC 3000 RPM TACHOMETER		
162-011	IDLE LIMITER, ELECTRONIC ENGINE		
81Y-001	PRE-TRIP LAMP INSPECTION, ALL OUTPUTS FLASH, WITH SMART SWITCH		
44R-008	8 ON/OFF LATCHING SMARTPLEX SWITCHES		
482-001	BW TRACTOR PROTECTION VALVE		
883-001	TRAILER HAND CONTROL BRAKE VALVE		
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY		
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
304-001	MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH		
882-004	TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
299-013	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE		
298-039	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS		



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Data Code	Description	Weight Front	Weight Rear
Design			
065-000	PAINT: ONE SOLID COLOR		
Color			
980-5F6	CAB COLOR A: L0006EB WHITE ELITE BC		
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
962-972	POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
966-972	POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)		
964-6Z7	BUMPER PAINT: FP24812 ARGENT SILVER DUPONT FLEX		
963-003	STANDARD E COAT/UNDERCOATING		
Certification / Compliance			
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS		
Raw Performance Data			
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 251.57		
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 81.05 in		
AM6-99D	CALC'D SPACE AVAILABLE FOR DECKPLATE : 84.45 in		
Sales Programs			
NO SALES PROGRAMS HAVE BEEN SELECTED			

TOTAL VEHICLE SUMMARY

Weight Summary			
	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	6187 lbs	4103 lbs	10290 lbs
Total Weight ⁺	6187 lbs	4103 lbs	10290 lbs

(+) Weights shown are estimates only.



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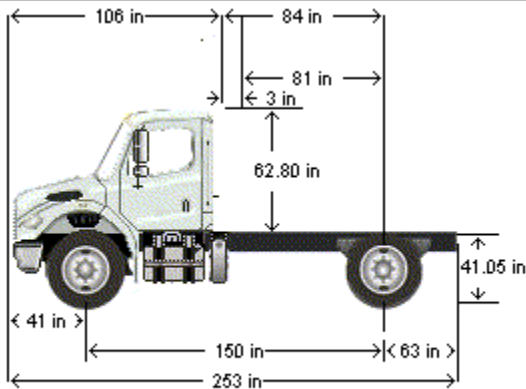
If weight is critical, contact Customer Application Engineering.



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DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	M2106
Wheelbase (545)	3800MM (150 INCH) WHEELBASE
Rear Frame Overhang (552)	1600MM (63 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

TABLE SUMMARY - DIMENSIONS

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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)	84.0
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	81.0
Back of Cab Protrusions (Exhaust/Intake) (CP)	3.0
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	147.0
Cab Height (CH)	62.8
Wheelbase (WB)	149.6
Frame Overhang (OH)	63.0
Overall Length (OAL)	253.3
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	41.1

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).....	21000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs)	33000
Expected GCW (lbs)	80000.0
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# FLAT LEAF FRONT SUSPENSION
Front Hubs (418)	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502)	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 6.20 INSET 2-HAND STEEL DISC FRONT WHEELS
Front Tires (093).....	MICHELIN X LINE ENERGY D 11R22.5 14 PLY RADIAL FRONT TIRES
Front Brakes (402).....	MERITOR 15X4 Q+ CAM FRONT BRAKES
Steering Gear (536).....	TRW THP-60 POWER STEERING
Rear Axle (420)	RS-21-160 21,000# R-SERIES SINGLE REAR AXLE
Rear Suspension (622).....	23,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
Rear Hubs (450)	CONMET PRESET PLUS PREMIUM IRON REAR HUBS
Rear Disc Wheels (505).....	MAXION WHEELS 90541 22.5X8.25 10-HUB PILOT 6.20 INSET 2-HAND STEEL DISC REAR WHEELS
Rear Tires (094)	MICHELIN XDN2 11R22.5 14 PLY RADIAL REAR TIRES
Rear Brakes (423)	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443).....	NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626)	NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449).....	NO PUSHER OR TAG HUBS
Pusher/Tag Disc Wheels (509)	NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095).....	NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456).....	NO PUSHER/TAG BRAKES

TABLE SUMMARY - GVWR

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	Front	Rear
Axle Component Weight Ratings		
Axles	12000	21000
Suspension	12000	23000
Hubs	14700	26000
Brakes	12000	22000
Wheels	14800	29600
Tires	12350	23360
Power Steering	13300	N/A
GAWR (per axle)	12000	21000
GAWR (per axle system)	12000	21000
Expected Load (per axle system)	12000	21000
Vehicle GVWR Summary		
Calculated GVWR	33000	
Expected GVWR	33000	
All weights displayed in pounds		

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FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545)3800MM (150 INCH) WHEELBASE
Frame Rails (546)..... 11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI(546)
Yield Strength (psi) 120000
Section Modulus (per rail) (cu in) 16.979
RBM (per rail) (lbf-in) 2037600
Inner Frame Reinforcement (547) NO INNER FRAME REINFORCEMENT
Outer Frame Reinforcement (548) NO OUTER FRAME REINFORCEMENT

TABLE SUMMARY - FRAME RBM

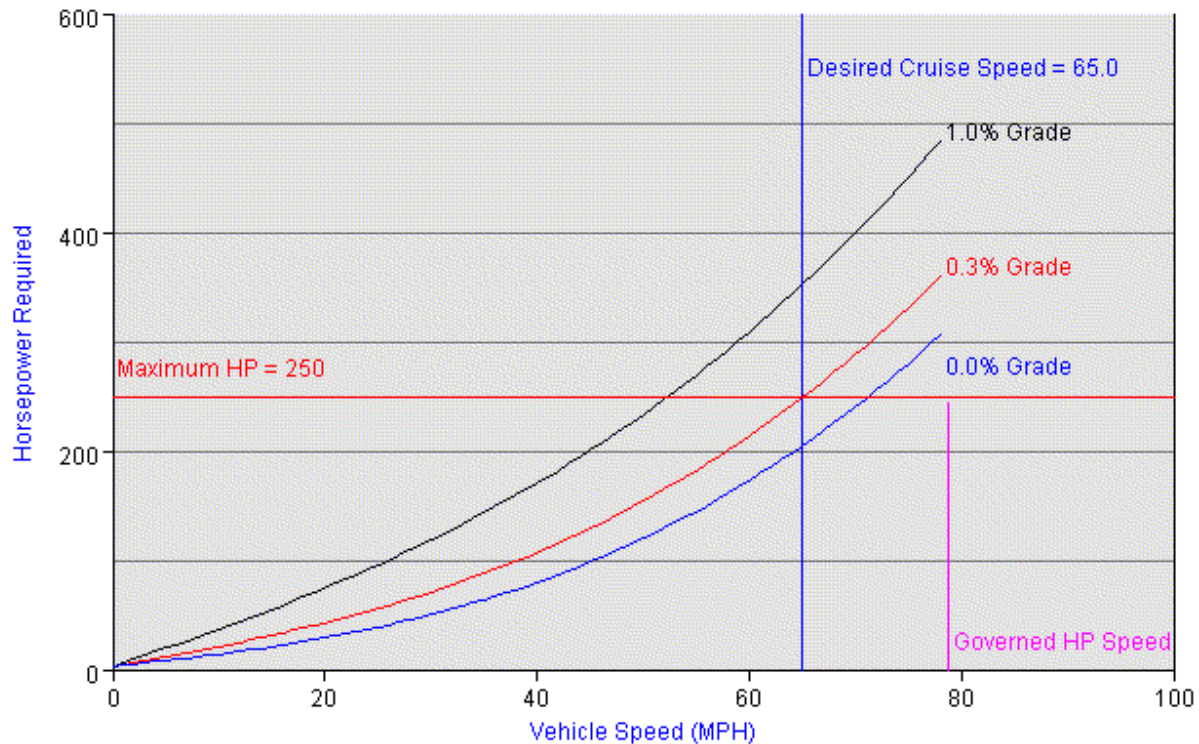
Item	Description / Value
Wheelbase	3800MM (150 INCH) WHEELBASE
Frame	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI
Inner Frame Reinforcement	NO INNER FRAME REINFORCEMENT
Outer Frame Reinforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	16.98
Frame RBM - per rail (lbf-in)	2037600

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S P E E D A B I L I T Y



VEHICLE SPECIFICATIONS SUMMARY - SPEEDABILITY

Model	M2106
Cab Size (829).....	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Desired Cruise Speed (mph)	65.0
Expected Front Axle(s) Load (lbs).....	12000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs)	21000.0
Expected Tag Axle(s) Load (lbs).....	0.0

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Expected GVW (lbs) 33000
 Expected GCW (lbs) 80000.0
 Engine (101)..... CUM B6.7 250 HP @ 2400 RPM, 2600 GOV, 660 LB/FT @ 1600 RPM
 Governed RPM..... 2600
 HP at Governed RPM 245
 RPM at Max HP 2400
 Max HP 250
 HP at Governed RPM (High Torque)..... 245
 RPM at Max HP (High Torque) 2400
 Max HP (High Torque) 250
 Multi-torque..... NO
 Transmission (342)..... ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
 Rear Axle (420) RS-21-160 21,000# R-SERIES SINGLE REAR AXLE
 Number of Speeds..... 1
 Rear Axle Gear Ratio(s)..... 6.14 REAR AXLE RATIO
 Rear Tires (094) MICHELIN XDN2 11R22.5 14 PLY RADIAL REAR TIRES
 Revolutions per Mile 496
 Trailer Width (in) 0.0
 Trailer Height (ground to top) (ft)..... 0.0
 Body Width (in) 96.0
 Body Height (ground to top) (ft)..... 10.0
 Roof Mounted Aero Device (784)..... NO AIR SHIELD OR BRACKETS
 Road Surface (AB5). SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
 Auxiliary Transmission (352)..... NO AUXILIARY TRANSMISSION
 High Gear Ratio N/A
 Low Gear Ratio..... N/A
 Transfer Case (373)..... NO TRANSFER CASE
 High Gear Ratio N/A
 Low Gear Ratio..... N/A

TABLE SUMMARY - SPEEDABILITY

Top Gear Speedability	At Max Power Speed	At Desired Cruise Speed
Top Gear Vehicle Speed (mph)	72.7	65.0
Engine RPM	2400	2144
Gross Power Available (HP)	250	N/A
Power (HP) Required for:		
Level Road	263	206
0.3% Grade	313	251
1.0% Grade	428	354
*Blue background represents value input by user.		

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

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Q U O T A T I O N

M2 106 CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK	DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP
CUM B6.7 250 HP @ 2400 RPM, 2600 GOV, 660 LB/FT @ 1600 RPM	SINGLE FRONT AXLE
ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION	12,000# FLAT LEAF FRONT SUSPENSION
RS-21-160 21,000# R-SERIES SINGLE REAR AXLE	106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
23,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD	3800MM (150 INCH) WHEELBASE
	11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI
	1600MM (63 INCH) REAR FRAME OVERHANG

			PER UNIT		TOTAL
VEHICLE PRICE	TOTAL # OF UNITS (1)	\$	69,975	\$	69,975
EXTENDED WARRANTY		\$	0	\$	0
DEALER INSTALLED OPTIONS		\$	0	\$	0
CUSTOMER PRICE BEFORE TAX		\$	69,975	\$	69,975

TAXES AND FEES

TAXES AND FEES	\$	0	\$	0
OTHER CHARGES	\$	0	\$	0

TRADE-IN

TRADE-IN ALLOWANCE	\$	(0)	\$	(0)
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BALANCE DUE	(LOCAL CURRENCY)	\$	69,975	\$	69,975
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OPTIONS NOT INCLUDED IN ABOVE PRICING

2 man bench \$50	Add 350 HP L9 Cummins	\$5,256
Power group Delete -\$190	Add 128 inch CA	\$ 365
Bluetooth Delete - \$50		
L9 260 HP @ 720 LB/FT \$1950	TOTAL	\$75,596
128 inch CA is \$365	W/OPTIONS	
Adding the 350 HP L9 Cummins is \$5,256		

APPROVAL:

Please indicate your acceptance of this quotation by signing below:

Customer: X _____ Date: ____ / ____ / ____.

Chassis pricing based under Ohio Department of Transportation contract 023-19 cooperative pricing with selected or standard truck warranty. Please consult with your body builder to assure all dimensions and necessary chassis components are included the specification.

Invoicing will occur upon delivery of bare chassis to customer or location of customer's choice. Payment is due upon receipt of invoice. Titles will be transferred and delivered promptly upon receipt of payment.

