



## SPECIFICATION PROPOSAL

### Vehicle Configuration

M2 106 CONVENTIONAL CHASSIS  
**2020 MODEL YEAR SPECIFIED**  
SET BACK AXLE - TRUCK  
STRAIGHT TRUCK PROVISION  
LH PRIMARY STEERING LOCATION

### General Service

TRUCK CONFIGURATION  
DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)  
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 : 8000.0 lbs  
EXPECTED REAR DRIVE AXLE(S) LOAD : 18000.0 lbs  
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 26000.0 lbs

### Engine

CUM B6.7 260 HP @ 2400 RPM, 2600 GOV, 660 LB/FT @ 1600 RPM

### Electronic Parameters

85 MPH ROAD SPEED LIMIT  
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT  
PTO MODE ENGINE RPM LIMIT - 1100 RPM  
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/FINAL GHG17 CONFIGURATION  
2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR)  
STANDARD OIL PAN  
ENGINE MOUNTED OIL CHECK AND FILL  
ONE PIECE VALVE COVER  
SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER



DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE  
(2) ALLIANCE MODEL 1131, GROUP 31, 12 VOLT MAINTENANCE FREE 1900 CCA BATTERIES  
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  
ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM  
CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH  
RH INBOARD FRAME MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH  
HORIZONTAL TAILPIPE  
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH  
MOUNTED REGENERATION REQUEST SWITCH  
STANDARD EXHAUST SYSTEM LENGTH  
RH STANDARD HORIZONTAL TAILPIPE  
6 GALLON DIESEL EXHAUST FLUID TANK  
AIR POWERED ON/OFF ENGINE FAN CLUTCH  
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED  
CUMMINS SPIN ON FUEL FILTER  
FULL FLOW OIL FILTER  
700 SQUARE INCH ALUMINUM RADIATOR  
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  
PHILLIPS-TEMRO 750 WATT/115 VOLT BLOCK HEATER  
CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR  
ALUMINUM FLYWHEEL HOUSING  
ELECTRIC GRID AIR INTAKE WARMER  
DELCO 12V 29MT STARTER WITH INTEGRATED MAGNETIC SWITCH

### **Transmission**

ALLISON 2100 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION

### **Transmission Equipment**

ALLISON VOCATIONAL PACKAGE  
PRIMARY MODE GEARS, 6 FORWARD GEARS WITH MANUAL SELECTION FOR 3, 2 AND 1, AVAILABLE  
FOR 1000/2000 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

LOAD BASED SHIFT SCHEDULE AND VEHICLE ACCELERATION CONTROL RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED VOCATIONAL USAGE

CUSTOMER INSTALLED MUNCIE CS6 SERIES PTOWITH ELECTRIC/HYDRAULIC CONTROLS

PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION

MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN

DASH MOUNTED T-HANDLE CABLE SHIFT CONTROL WITH PARK BRAKE POSITION

WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK

TRANSMISSION OIL CHECK AND FILL

SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)

### Front Axle and Equipment

DETROIT DA-F-10.0-3 10,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE

MERITOR 15X4 Q+ CAM FRONT BRAKES

NON-ASBESTOS FRONT BRAKE LINING

CONMET CAST IRON FRONT BRAKE DRUMS

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

SYNTHETIC 75W-90 FRONT AXLE LUBE

### Front Suspension

10,000# TAPERLEAF FRONT SUSPENSION

MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION

FRONT SHOCK ABSORBERS

### Rear Axle and Equipment

MS-19-14X 19,000# R-SERIES SINGLE REAR AXLE

4.88 REAR AXLE RATIO

IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING

SPL100 DANA SPICER MAIN DRIVELINE WITH HALF ROUND YOKES

MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES

NON-ASBESTOS REAR BRAKE LINING

BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S) WITH AUXILIARY SUPPORT BRACKETS

CONMET CAST IRON REAR BRAKE DRUMS



REAR OIL SEALS  
HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS  
MERITOR AUTOMATIC REAR SLACK ADJUSTERS  
SYNTHETIC 75W-90 REAR AXLE LUBE

### Rear Suspension

AIRLINER 18,000# REAR SUSPENSION  
AIRLINER HIGH POSITION RIDE HEIGHT  
STANDARD AXLE SEATS IN AXLE CLAMP GROUP  
MANUAL DUMP VALVE FOR AIR SUSPENSION WITHOUT GAUGE  
INDICATOR LIGHT AND BUZZER FOR EACH REAR SUSPENSION CONTROL SWITCH  
SINGLE AIR REAR SUSPENSION LEVELING VALVE  
TRANSVERSE CONTROL RODS  
REAR SHOCK ABSORBERS - ONE AXLE (AIR RIDE SUSPENSION)

### Brake System

AIR BRAKE PACKAGE  
WABCO 4S/4M ABS WITHOUT 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  
WABCO SS-1200 PLUS AIR DRYER WITH INTEGRAL AIR GOVERNOR AND HEATER  
PULL CABLES ON ALL AIR RESERVOIR(S)

### Trailer Connections

UPGRADED CHASSIS MULTIPLEXING UNIT  
UPGRADED BULKHEAD MULTIPLEXING UNIT

### Wheelbase & Frame

5950MM (234 INCH) WHEELBASE  
9/32X3-7/16X10-1/16 INCH STEEL FRAME (7.14MMX255.6MM/0.281X10.06 INCH) 120KSI  
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 142.86 in  
FRONT CLOSING CROSSMEMBER  
STANDARD WEIGHT ENGINE CROSSMEMBER  
STANDARD MIDSHIP #1 CROSSMEMBER(S)  
STANDARD REARMOST CROSSMEMBER  
STANDARD SUSPENSION CROSSMEMBER

### Chassis Equipment

THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS  
BUMPER MOUNTING FOR SINGLE LICENSE PLATE



FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS  
GRADE 8 THREADED HEX HEADED FRAME FASTENERS

### Fuel Tanks

50 GALLON/189 LITER RECTANGULAR ALUMINUM FUEL TANK - RH  
50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH  
RECTANGULAR FUEL TANK(S)  
POLISHING OF FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS  
FUEL TANK(S) FORWARD  
BLACK STEP FINISH  
FUEL TANK CAP(S)  
DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR AND HAND PRIMER  
EQUIFLO INBOARD FUEL SYSTEM  
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE

### Tires

CONTINENTAL HSR2SA 255/70R22.5 16 PLY RADIAL FRONT TIRES  
CONTINENTAL HDR 255/70R22.5 16 PLY RADIAL REAR TIRES

### Hubs

CONMET PRESET PLUS IRON FRONT HUBS  
CONMET PRESET PLUS IRON REAR HUBS

### Wheels

ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT 5.79 INSET ALUMINUM DISC FRONT WHEELS  
ALCOA LVL ONE 88367X ALUMINUM OUTSIDE, STEEL INSIDE; 22.5X8.25 10-HP DISC REAR WHEELS  
POLISHED FRONT WHEELS; OUTSIDE ONLY  
POLISHED REAR WHEELS; OUTSIDE OF OUTER WHEELS ONLY

### Cab Exterior

132 INCH BBC HIGH-ROOF EXTENDED ALUMINUM CONVENTIONAL CAB  
AIR CAB MOUNTS  
NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE  
LH AND RH GRAB HANDLES  
HOOD MOUNTED CHROMED PLASTIC GRILLE  
CHROME HOOD MOUNTED AIR INTAKE GRILLE  
FIBERGLASS HOOD  
TUNNEL/FIREWALL LINER  
DUAL 26 INCH RECTANGULAR POLISHED ALUMINUM AIR HORNS ROOF MOUNTED  
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  
DAYTIME RUNNING LIGHTS  
INTEGRAL STOP/TAIL/BACKUP LIGHTS  
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  
RH AFTERTREATMENT SYSTEM CAB ACCESS WITH BLACK COVER  
COMPOSITE EXTERIOR SUN VISOR  
63X14 INCH TINTED REAR WINDOW  
TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS  
RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)  
20X23 INCH LH AND RH TINTED SIDE WINDOWS  
TINTED WINDSHIELD  
2 GALLON WINDSHIELD WASHER RESERVOIR WITH FLUID LEVEL INDICATOR, FRAME MOUNTED

#### **Cab Interior**

OPAL GRAY VINYL INTERIOR  
MOLDED DOOR PANEL WITH UPPER VINYL INSERTS  
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BLACK MATS WITH SINGLE INSULATION  
DASH MOUNTED ASH TRAYS AND LIGHTER  
FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS AND ADDITIONAL  
CENTER COMPARTMENT WITHOUT NETTING  
IN DASH STORAGE BIN  
PLASTIC MANIFEST BOX - LH DOOR  
(2) CUP HOLDERS LH AND RH DASH  
GRAY/CHARCOAL FLAT DASH  
2-1/2 LB. FIRE EXTINGUISHER  
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  
PREMIUM INSULATION  
SOLID-STATE CIRCUIT PROTECTION AND FUSES  
12V NEGATIVE GROUND ELECTRICAL SYSTEM  
DOOR ACTIVATED DOME/RED MAP LIGHTS, FORWARD LH AND RH AND REAR CENTER  
LH AND RH ELECTRIC DOOR LOCKS



PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER  
HIGH BACK NON SUSPENSION PASSENGER SEAT  
FULL WIDTH REAR BENCH SEAT  
DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS  
LH AND RH INTEGRAL DOOR PANEL ARMRESTS  
VINYL WITH VINYL INSERT DRIVER SEAT  
VINYL WITH VINYL INSERT PASSENGER SEAT  
VINYL WITH VINYL INSERT REAR PASSENGER SEAT  
BLACK SEAT BELTS  
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN  
4-SPOKE 18 INCH (450MM) STEERING WHEEL  
DRIVER AND PASSENGER INTERIOR SUN VISORS

### Instruments & Controls

WOODGRAIN DRIVER INSTRUMENT PANEL  
WOODGRAIN 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  
PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE  
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE  
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE  
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY  
(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP  
ELECTRIC ENGINE OIL PRESSURE GAUGE  
AM/FM/WB WORLD TUNER RADIO WITH CD PLAYER, BLUETOOTH, IPOD INTERFACE, USB AND AUXILIARY INPUTS, J1939  
DASH MOUNTED RADIO  
(2) RADIO SPEAKERS IN CAB  
AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF  
ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER  
STANDARD VEHICLE SPEED SENSOR  
ELECTRONIC 3000 RPM TACHOMETER  
IGNITION SWITCH CONTROLLED ENGINE STOP



(6) IGN CONTROLLED EXTRA SWITCHES WITH IND LIGHTS WIRED TO POWER DIST BOX WITH RELAYS PROVIDING 20 AMPS PER CIRCUIT TO JUNCTION BLOCK AND 1 CIRCUIT AT 30 AMPS

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 SHIFTER CONTROLLED AUTOPARK AND 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

### Design

PAINT: ONE SOLID COLOR

### Color

CAB COLOR A:

BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT

SUNVISOR PAINTED SAME AS CAB COLOR A

STANDARD E COAT/UNDERCOATING

### Certification / Compliance

U.S. FMVSS CERTIFICATION

### Secondary Factory Options

CORPORATE PDI CENTER IN-SERVICE ONLY

### Extended Warranty

CUM 2017 B6.7: HD1 MD DTY 5 Years / 300,000 Miles / 483,000 km  
EXTENDED WARRANTY. FEX APPLIES

CUM 2017 B6.7: AT3 MD DTY 5 Years / 300,000 Miles / 483,000 km  
AFTERTREATMENT. FEX APPLIES

TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING  
COVERAGE \$550 CAP FEX APPLIES

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WITHOUT NOTICE





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