

**VILLAGE OF WINDSOR  
VILLAGE BOARD RESOLUTION 2020-22**

**ATHORIZATION TO PURCHASE A TANDEM AXLE PATROL TRUCK**

**WHEREAS**, the Village staff has advised the Village Board the Village's 2000 Sterling plow truck, with wing, plow, and salter have served the useful life for the Village and recommends it be replaced; and

**WHEREAS**, the Village Board replacement schedule provided for the purchase of a new plow truck; and

**WHEREAS**, the Village Board budgeted \$250,000 in 2020 in the Reserve/Replacement Fund for the purchase of a new plow truck to replace the 2000 Sterling; and

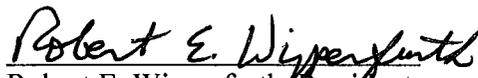
**WHEREAS**, the Public Works Director has researched and obtained quotes for the replacement of the 2000 Sterling plow truck as provided in Exhibits A through F; and

**WHEREAS**, the Public Works Director and the Public Works Committee recommend the purchase of a plow truck as shown in Exhibit B.

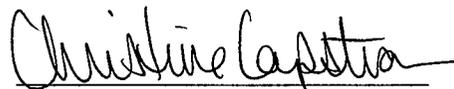
**NOW THEREFORE, BE IT RESOLVED**, by the Village Board of the Village of Windsor that the Public Works Director is authorized and directed to purchase a plow truck as provided in Exhibit B from Lakeside International for an amount not to exceed \$95,445.90. The Village President, Village Attorney and Staff are authorized to execute a contract and all associated documents, as approved by the Village Attorney, on behalf of the Village to purchase same.

The above and foregoing Resolution was duly adopted at a regular meeting of the Village Board of the Village of Windsor on March 19, 2020, by a vote of 5 in favor and 0 opposed.

**VILLAGE OF WINDSOR**

  
Robert E. Wipperfurth, President

*Attested by:*

  
Christine Capstran, Clerk

**Incorporated by Reference:**

- Exhibit A: Public Works Memo
- Exhibit B: Lakeside International quote
- Exhibit C: I-State Truck Center quote
- Exhibit D: JX Peterbilt quote
- Exhibit E: Kriete Truck Center quote
- Exhibit F: Wisconsin Kenworth quote



# Windsor

Growing Forward

## Memorandum

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To: Windsor Village Board

CC: Tina Butteris, Village Administrator  
Christine Capstran, Clerk

From: Davis Clark, Village Public Works Director

Date: March 12, 2020

Re: Tandem Axle Truck and Equipment Quotes

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Five quotes have been received for the purchase of a Tandem Axle Patrol Truck (snow plow truck). The tandem axle patrol truck would replace a 2000 Sterling single axle plow truck which would be kept as a spare.

The truck quotes received are for the cab and chassis only, they do not include the dump truck bed or any snow plow/salting equipment.

I have also received quotes from 2 vendors for the equipment package that would go on the approved cab and chassis. The equipment includes the dump truck bed, front snow plow, side wing plow, tarp system, and all the lighting and hydraulics associated.

Once the cab and chassis and other equipment is ordered we could expect the truck delivered later this year.

The Public Works Committee's recommendation is to purchase the cab and chassis from Lakeside International for \$95,445.90 and the Equipment Package from Monroe Truck Equipment for \$77,427.00.

We would ask the Board to approve spending up to \$80,000.00 on the equipment package in case there are issues with fitting the equipment on the cab and chassis.

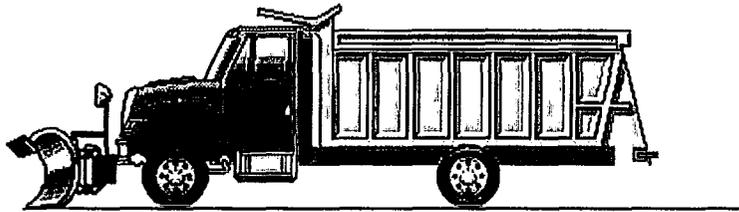
# Exhibit B

**INTERNATIONAL®**

December 14, 2019

**Prepared For:**  
Village of Windsor  
Davis Clark  
4084 Mueller Rd.  
Deforest, WI 53532-2332  
(608)888 - 0066  
Reference ID: 9720X

**Presented By:**  
LAKESIDE INTERNATIONAL TRUCKS  
Hank Wieland  
7243 MANUFACTURERS DRIVE  
MADISON WI 53704 -  
(608)246-5860



Model Profile  
**2020 HV507 SFA (HV507)**

**AXLE CONFIG:** 4X2  
**MISSION:** Requested GVWR: 43000. Calc. GVWR: 43000  
Calc. Start / Grade Ability: 30.89% / 3.00% @ 55 MPH  
Calc. Geared Speed: 67.8 MPH  
**DIMENSION:** Wheelbase: 161.00, CA: 86.00, Axle to Frame: 79.00  
**ENGINE, DIESEL:** {Cummins L9 350} EPA 2017, 350HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 350 Peak HP (Max)  
**TRANSMISSION, AUTOMATIC:** {Allison 3000 RDS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway  
**CLUTCH:** Omit Item (Clutch & Control)  
**AXLE, FRONT NON-DRIVING:** {Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity  
**AXLE, REAR, SINGLE:** {Dana Spicer S23-190D} Single Reduction, Hypoid Gearing, 23,000-lb Capacity, Driver Control Locking Differential, R Wheel Ends Gear Ratio: 6.14  
**CAB:** Conventional, Day Cab  
**TIRE, FRONT:** (2) 315/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev/mile, 68 MPH, All-Position

**Description**

Base Chassis, Model HV507 SFA with 161.00 Wheelbase, 86.00 CA, and 79.00 Axle to Frame.

TOW HOOK, FRONT (2) Frame Mounted

AXLE CONFIGURATION {Navistar} 4x2

**Notes**

: Pricing may change if axle configuration is changed.

FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.866" x 3.622" x 0.437" (276.0mm x 92.0mm x 11.1mm); 456.0" (11582mm) Maximum OAL

BUMPER, FRONT Swept Back, Steel, Heavy Duty

FRAME EXTENSION, FRONT Integral; 20" In Front of Grille

WHEELBASE RANGE 146" (370cm) Through and Including 195" (495cm)

AXLE, FRONT NON-DRIVING {Meritor MFS-20-133A} Wide Track, I-Beam Type, 20,000-lb Capacity

SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 20,000-lb Capacity, with Shock Absorbers

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

**Includes**

: BRAKE LINES Color and Size Coded Nylon

: DRAIN VALVE Twist-Type

: GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster

: PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel

: QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4

: SLACK ADJUSTERS, FRONT Automatic (with Air Cam Brakes)

: SLACK ADJUSTERS, REAR Automatic (with Air Cam Brakes)

: SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6

BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Brake Chambers

DRAIN VALVE {Berg} with Pull Chain, for Air Tank

AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel) with Automatic Traction Control

AIR DRYER {Wabco System Saver 1200} with Heater

BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Spring Brake

BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 SqIn

BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake

AIR COMPRESSOR {Cummins} 18.7 CFM

AIR DRYER LOCATION Mounted Inside Left Rail, Back of Cab

**Description**

2-WAY RADIO Wiring Effects; Wiring with 20 Amp Fuse Protection, Includes Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and Routed to Center of Header Console in Cab

RADIO AM/FM/WB/Clock/Bluetooth/USB Input/Auxiliary Input, MP3, Apple Device Play & Control

SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in Both B-Pillars

RADIO, AUXILIARY CONTROLS Mounted in Steering Wheel, Radio Function Control Switch, Includes Volume Up/Down, Mute, Forward/Back and Bluetooth Answer/Disconnect

BACK-UP ALARM Electric, 102 dBA

AUXILIARY HARNESS 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications

BATTERY CABLES with 36" of Extra Length Coiled and Strapped Near Battery Box

STOP, TURN, TAIL & B/U LIGHTS {Weldon} Multi-Function LED Lamp, Mounted Outside Rails, Includes LED License Plate Light

HORN, ELECTRIC Disc Style

BATTERY BOX Steel, with Plastic Cover, 18" Wide, 2-4 Battery Capacity, Mounted Right Side Back of Cab

SWITCH, BODY CIRCUITS, MID with Remote Power Module Mounted in Cab Behind Driver Seat, Up to 6 Outputs & 6 Inputs, Max 20 amp per Channel, Max 80 amp Total, Includes 1 Switch Pack with Momentary Switches

JUMP START STUD Remote Mounted

WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed When Park Brake Set and Wipers Left on for a Predetermined Time

RUNNING LIGHT (2) Daytime

CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade

TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Back-up Lights

HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield Wipers are turned on

STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt, Less Thermal Over-Crank Protection

INDICATOR, LOW COOLANT LEVEL with Audible Alarm

ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses

TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender

BATTERY DISCONNECT SWITCH 300 Amp, Disconnects Charging Circuits, Locks with Padlock, Cab Mounted

POWER SOURCE, ADDITIONAL Auxiliary Power Outlet (APO) & USB Port, Located in the Instrument Panel

**Description**

: DEAERATION SYSTEM with Surge Tank

: HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps

: RADIATOR HOSES Premium, Rubber

AIR CLEANER Single Element, with Integral Snow Valve and In-Cab Control

FEDERAL EMISSIONS {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2019

THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel

ACCESSORY WIRING, SPECIAL for Road Speed Wire Coiled Under Instrument Panel for Customer Use

BLOCK HEATER, ENGINE {Phillips} 120V/1000W, with "Y" Cord for Dealer Installed 120V/300W Oil Pan Heater

**Includes**

: BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door

EMISSION COMPLIANCE Federal, Does Not Comply with California Clean Air Idle Regulations

ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; with Ignition Switch Control for Cummins ISB/B6.7 or ISL/L9 Engines

TRANSMISSION, AUTOMATIC {Allison 3000 RDS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor, with 80,000-lb GVW and GCW Max, On/Off Highway

SHIFT CONTROL PARAMETERS Allison S-1 Performance Programming in Primary and Allison Fixed Programming in Secondary

TRANSMISSION SHIFT CONTROL for Column Mounted Stalk Shifter

TRANSMISSION OIL Synthetic; 29 thru 42 Pints

ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction

TRANSMISSION TCM LOCATION Located Inside Cab

PTO LOCATION Dual, Customer Intends to Install PTO at Left and/or Right Side of Transmission

SUSPENSION AIR CONTROL VALVE Pressure Release Control In Cab

AXLE, REAR, SINGLE {Dana Spicer S23-190D} Single Reduction, Hypoid Gearing, 23,000-lb Capacity, Driver Control Locking Differential, R Wheel Ends . Gear Ratio: 6.14

SUSPENSION, REAR, AIR, SINGLE {Hendrickson PRIMAAX EX} 23,000-lb Capacity, 9.0" Ride Height, with Shock Absorbers

FUEL TANK STRAPS Bright Finish Stainless Steel

LOCATION FUEL/WATER SEPARATOR Mounted Outside Left Rail, 15" Back of Cab

**Description**

: SUN VISOR (3) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver Side

WINDSHIELD Heated, Single Piece

ARM REST, RIGHT, DRIVER SEAT

WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express Down Feature

FRESH AIR FILTER Attached to Air Intake Cover on Cowl Tray in Front of Windshield Under Hood

CAB REAR SUSPENSION Air Bag Type

INSTRUMENT PANEL Wing Panel

SUNSHADE, EXTERIOR Bright Finish, with Integral Clearance/Marker Lights

ACCESS, CAB {Bustin} Aluminum, Driver & Passenger Sides, Two Steps per Door, for use with Day Cab or Extended Cab, Self-Cleaning

WHEELS, FRONT {Accuride 41730} DISC; 22.5x9.00 Rims, Extra Polish Aluminum, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs

WHEELS, REAR {Accuride 42644} DUAL DISC; 22.5x8.25 Rims, Standard Polish Aluminum, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs

(4) TIRE, REAR 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive

(2) TIRE, FRONT 315/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev/mile, 68 MPH, All-Position

Cab schematic 100WK

Location 1: 0311, Omaha Orange (Std)

Chassis schematic N/A

**Services Section:**

WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles Built July 1, 2017 or Later, CTS-2025A

Monroe Package

Prepared for:  
Davis Clark  
Village of Windsor  
4084 Mueller Road  
De Forest, WI 53532  
Phone 608-888-0066

Exhibit C

Prepared by:  
Craig Potter  
I-State Truck Center  
6303 Pepsi Way  
Windsor, WI 53598  
Phone 608-228-1177

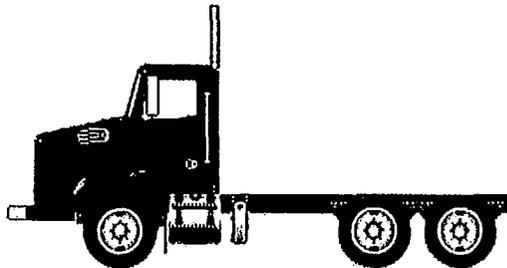
A proposal for  
**Village of Windsor**

Prepared by  
**I-State Truck Center**  
Craig Potter

Feb 20, 2020

**2021 Western Star 4700SB**

\$100,960<sup>00</sup>



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

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Description	Weight Front	Weight Rear
<b>Engine</b>		
CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM	-850	-70
<b>Electronic Parameters</b>		
75 MPH ROAD SPEED LIMIT		
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT		
20 MINUTE IDLE SHUTDOWN - CONTINUOUS OVERRIDE WITH CLUTCH AND SERVICE BRAKE		
PTO MODE ENGINE RPM LIMIT - 700 RPM		
PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED		
PTO RPM WITH CRUISE SET SWITCH - 700 RPM		
PTO RPM WITH CRUISE RESUME SWITCH - 700 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		
TEMPERATURE OVERRIDE BELOW 20 DEGREES AND ABOVE 70 DEGREES AMBIENT TEMPERATURE		
<b>Engine Equipment</b>		
2016-2019 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 WITH Safety ELEMENT AND INSIDE/OUTSIDE AIR WITH SNOW DOOR	10	
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE		
(3) DTNA GENUINE, AGM STARTING AND CYCLING, MIN 2190CCA, 570RC, THREADED STUD BATTERIES		





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 Davis Clark  
 Village of Windsor  
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Prepared by:  
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 I-State Truck Center  
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 Windsor, WI 53598  
 Phone 608-228-1177

Description	Weight Front	Weight Rear
HALDEX AUTOMATIC FRONT SLACK ADJUSTERS WITH STAINLESS STEEL CLEVIS PINS		
STANDARD KING PIN BUSHINGS		
TRW THP-60 POWER STEERING WITH RCH45 AUXILIARY GEAR	90	
POWER STEERING PUMP		
4 QUART POWER STEERING RESERVOIR		
OIL/AIR POWER STEERING COOLER		
SYNTHETIC 50W FRONT AXLE LUBE		
<b>Front Suspension</b>		
20,000# FLAT LEAF FRONT SUSPENSION	50	
GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
FRONT SHOCK ABSORBERS		
<b>Rear Axle and Equipment</b>		
MT-40-14X 40,000# R-SERIES TANDEM REAR AXLE		10
5 86 REAR AXLE RATIO		
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES	-30	-30
MXL 17T MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH HALF ROUND YOKES		
DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		30
(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AND REAR-REAR AXLE VALVE		
INDICATOR LIGHT AND BUZZER FOR EACH INTERAXLE LOCKOUT SWITCH		
INDICATOR LIGHT AND BUZZER FOR EACH DRIVER CONTROLLED TRACTION DEVICE SWITCH		
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		



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 Davis Clark  
 Village of Windsor  
 4084 Mueller Road  
 De Forest, WI 53532  
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Description	Weight Front	Weight Rear
PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS		
<b>Trailer Connections</b>		
NO TRAILER RECEPTACLE BRACKET		
<b>Wheelbase &amp; Frame</b>		
4275MM (168 INCH) WHEELBASE		
7/16X3-9/16X11-1/8 INCH STEEL FRAME (11 11MMX282 6MM/0.437X11.13 INCH) 120KSI	80	150
PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION	195	-5
BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW		
1900MM (75 INCH) REAR FRAME OVERHANG		
FRAME OVERHANG RANGE: 71 INCH TO 80 INCH	-20	100
24 INCH INTEGRAL FRONT FRAME EXTENSION	158	-20
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) · 105 0 In		
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) · 102.0 In		
CALC'D FRAME LENGTH - OVERALL · 312 71		
FRAME HEIGHT TOP FRONT UNLADEN · 43 4 in		
FRAME HEIGHT TOP FRONT LADEN 39 59 in		
FRAME HEIGHT TOP REAR UNLADEN : 40 19 in		
FRAME HEIGHT TOP REAR LADEN 38 62 in		
CALCULATED FRAME SPACE LH SIDE : 34.92 in		
CALCULATED FRAME SPACE RH SIDE 149 09 In		
CALC'D SPACE AVAILABLE FOR DECKPLATE 104 69 in		
SQUARE END OF FRAME		
STANDARD WEIGHT ENGINE CROSSMEMBER		
STANDARD CROSSMEMBER BACK OF TRANSMISSION		
STANDARD MIDSHIP #1 CROSSMEMBER(S)		
STANDARD REARMOST CROSSMEMBER		
HEAVY DUTY SUSPENSION CROSSMEMBER		
STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER		

**Chassis Equipment**



Prepared for:  
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 Village of Windsor  
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 Phone: 608-888-0066

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 I-State Truck Center  
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Description	Weight Front	Weight Rear
REAR WHEEL MOUNTING NUTS		
<b>Cab Exterior</b>		
110 INCH BBC STEEL CONVENTIONAL CAB WESTERN STAR PAINTED ALUMINUM CAB SKIRT		
AIR CAB MOUNTS WITH CHECK VALVE		
STAINLESS STEEL SILL PLATES WITH RACEWAY	5	
NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
FRONT FENDERS		
2 INCH FENDER EXTENSIONS	5	
LH AND RH EXTERIOR GRAB HANDLES WITH RUBBER INSERTS AND RH INTERIOR GRAB HANDLE MOUNTED TO A POST		
STATIONARY BRIGHT FINISH GRILLE		
CHROME HOOD MOUNTED AIR INTAKE GRILLE		
GALVANEALD STEEL SEVERE SERVICE CAB		
FIBERGLASS HOOD		
TUNNEL/FIREWALL LINER		
DUAL HADLEY SD-978 26 INCH RECTANGULAR AIR HORNS		
SINGLE ELECTRIC HORN		
DUAL HORN SHIELDS		
DOORS AND IGNITION KEYED THE SAME		
REAR LICENSE PLATE MOUNT END OF FRAME SWITCH, INDICATOR LIGHT AND WIRING FOR (2) CUSTOMER FURNISHED BEACONS		
SINGLE RECTANGULAR H4 HALOGEN HEADLIGHTS WITH BRIGHT BEZELS		
LED MARKER LAMPS		
WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH DUAL CONNECTIONS AT BUMPER		
INDIVIDUAL LED STOP/TURN/BACKUP LIGHTS GROMMET MOUNTED BELOW RAIL		
STANDARD FRONT TURN SIGNAL LAMPS		
DUAL WEST COAST STAINLESS STEEL HEATED MIRRORS WITH LH AND RH REMOTE		
DOOR MOUNTED MIRRORS		
102 INCH EQUIPMENT WIDTH		



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Description	Weight Front	Weight Rear
RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
BINARY CONTROL, R-134A		
ADDITIONAL CAB SIDEWALL INSULATION	60	10
AUTOMATIC SELF-RESET CIRCUIT BREAKERS/FUSES IN DASH POWER DISTRIBUTION BOXES AND FUSES IN AUXILIARY POWER DISTRIBUTION BOXES		
DOOR ACTIVATED DOME LIGHT, UNDER DASH LIGHT AND LH AND RH DOOR MOUNTED COURTESY LIGHTS		
LH AND RH ELECTRIC DOOR LOCKS		
(1) 12 VOLT POWER SUPPLY AND (2) USB PORTS MOUNTED IN DASH		
PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	40	
BATTERY BOX MID BACK NON SUSPENSION PASSENGER SEAT		
DUAL DRIVER SEAT ARMRESTS, NO PASSENGER SEAT ARMRESTS	4	
BLACK MORDURA CLOTH DRIVER SEAT COVER		
BLACK MORDURA CLOTH PASSENGER SEAT COVER		
3 POINT DRIVER AND PASSENGER SEAT BELT RETRACTORS		
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
4-SPOKE 18 INCH (450MM) BLACK STEERING WHEEL WITH SWITCHES		
DRIVER AND PASSENGER INTERIOR SUN VISORS		

**Instruments & Controls**

NON-ADJUSTABLE SUSPENDED PEDALS  
 ELECTRONIC FOOT ACCELERATOR  
 BRIGHT ARGENT FINISH GAUGE BEZELS  
 BLACK VINYL DRIVER INSTRUMENT PANEL  
 BLACK VINYL CENTER INSTRUMENT PANEL  
 LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM  
 2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES



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Description	Weight Front	Weight Rear
NO VEHICLE PERFORMANCE MONITOR IGNITION SWITCH CONTROLLED ENGINE STOP SIX EXTRA SWITCHES IN DASH HARDWIRE SWITCH #1,ON/OFF LATCHING, 20 AMPS IGNITION WIRED TO CUSTOMER INTERFACE CONNECTOR HARDWIRE SWITCH #2,ON/OFF LATCHING, 20 AMPS IGNITION WIRED TO CUSTOMER INTERFACECONNECTOR HARDWIRE SWITCH #3,ON/OFF LATCHING, 20 AMPS IGNITION WIRED TO CUSTOMER INTERFACECONNECTOR HARDWIRE SWITCH #4,ON/OFF LATCHING, 20 AMPS IGNITION WIRED TO CUSTOMER INTERFACECONNECTOR HARDWIRE SWITCH #5,ON/OFF LATCHING, 20 AMPS IGNITION WIRED TO CUSTOMER INTERFACECONNECTOR HARDWIRE SWITCH #6,ON/OFF LATCHING, 20 AMPS IGNITION WIRED TO CUSTOMER INTERFACECONNECTOR DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SW WITH HEADLIGHT/MRKR LT INTERRUPTER SWITCHES ON STEERING WHEEL & DASH SW FOR CUSTOMER FURNISHED SNOWPLOW LTS ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR SELF CANCELING TURN SIGNAL SWITCH, HEADLAMP HIGH/LOW AND FLASH, WASH/WIPE/INTERMITTENT PACIFIC INSIGHT ELECTRONIC FLASHER	-5	
<b>Design</b>		PAINT ONE SOLID COLOR
CAB COLOR A L6389EY OMAHA ORANGE ELITE EY CAB INTERIOR PAINTED SAME AS CAB COLOR BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		



• **Prepared for:**  
Davis Clark  
Village of Windsor  
4084 Mueller Road  
De Forest , WI 53532  
Phone. 608-888-0066

**Prepared by:**  
Craig Potter  
I-State Truck Center  
6303 Pepsi Way  
Windsor, WI 53598  
Phone 608-228-1177

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



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Expected GVW (lbs)	60000
Expected GCW (lbs)	0.0
Engine (101)	CUM L9 370 HP @ 2000 RPM, 2100 GOV RPM, 1250 LB/FT @ 1400 RPM
Torque at Clutch Engagement (lbs-ft)	550
Transmission (342)	ALLISON 3000 RDS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Gear Ratio Forward 1	3.49
Gear Ratio Forward 2	1.86
Gear Ratio Forward 3	1.41
Gear Ratio Reverse 1	.503
Gear Ratio Reverse 2	N/A
Gear Ratio Reverse 3	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-40-14X 40,000# R-SERIES TANDEM REAR AXLE
Number of Speeds	1
Rear Axle Gear Ratio(s)	5.86 REAR AXLE RATIO
Rear Tires (094)	CONTINENTAL HDR2 11R22 5 14 PLY RADIAL REAR TIRES
Revolutions per Mile	491
Vehicle Service (A85)	UTILITY/REPAIR/MAINTENANCE SERVICE
Startability Factor	.8
Terrain (AA5)	TERRAIN/DUTY 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
Startability Factor	0
Most Severe Grade Expected (AB1)	MAXIMUM 8% EXPECTED GRADE
Startability Factor	.8
Road Surface (AB5)	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
Startability Factor	0
Suggested Torque Converter Stall Ratio	1.77

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



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Dimensions	Inches
Bumper to Back of Cab (BBC)	133.2
Bumper to Centerline of Front Axle (BA)	69.9
Min Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	105.0
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	102.0
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	179.8
Cab Height (CH)	73.4
Wheelbase (WB)	168.3
Frame Overhang (OH)	74.8
Overall Length (OAL)	313.0
Rear Axle Spacing	55.0
Unladen Frame Height at Centerline of Rear Axle	40.2

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	Front	Rear 1	Rear 2
<b>Axle Component Weight Ratings</b>			
Axles	20000	20000	20000
Suspension	20000	20000	20000
Hubs	23000	26000	26000
Brakes	20000	21000	21000
Wheels	20400	32400	32400
Tires	20000	23360	23360
Power Steering	22000	N/A	N/A
GAWR (per axle)	20000	20000	20000
GAWR (per axle system)	20000		40000
Expected Load (per axle system)	20000		40000
<b>Vehicle GVWR Summary</b>			
Calculated GVWR	60000		
Expected GVWR	60000		
All weights displayed in pounds			

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





Exhibit D

February 25, 2020  
Davis Clark  
The Village of Windsor  
4084 Mueller Rd  
Deforest, WI 53532

Davis:

JX Peterbilt – Madison is pleased to present a price quotation for (1) New 2021 Peterbilt Model 348 Tandem Axle Chassis with the enclosed specifications on Quote # QUO-591522-P6T9K1. Our bid is predicated on this specification and is subject to Peterbilt Motors Engineering approval. Any additions or changes needed for the installation of equipment will be the responsibility of the Township. This bid includes a Frame Layout diagram for review of the body installer before the units are built. Please read below and add the options as listed.

**New Truck Net Price . . . . . \$102,995.00**

Includes no local, state or federal taxes, F.O.B. Deforest, WI. Pricing valid for 15 days. After this period, we will need to reconfirm this bid. Full payment will be due upon delivery to the equipment installer. Current production is for Q2 2020. Delivery dates are only estimated, and must be reconfirmed at the time of documented purchase.

**Order Requirements:** \$1,000 deposit or acceptable purchase order, Signed final set of truck specifications, Signed purchase contract and verification of finance approval (if applicable).

The Differences that I picked up on that are different from my spec are as follows:

- We use a double reinforced frame.
- Air tank locations should be placed by the specific equipment installer you award to.
- Our Defroster System is strong enough to not need a heater windshield, which are expensive to replace.
- The passenger’s seat is mounted on an in-cab battery box without armrests.
- Our tilt hood opens up far enough to not need hood hatches.
- Our Front Hood Spot Mirrors are on separate mounts than the body companies install the plow lights on.
- The Allison Transmission comes with warning lights, they do not list audible warning.
- The Rear View Mirrors do not come with lights in the mirror heads.
- Our Frontal Air Intake does not have or need Inside -Outside Air flow has not been a complaint on it.
- The Alternator is a Leece Neville 200 AMP Alternator.
- The Steering Wheel is Poly Plastic, and is not a Smart Wheel design.
- The Fan Clutch is a Horton 2 Speed Vocational Unit.
- The Oil Pan is a factory standard pan.
- The Transmission Shifter is a Dash Mounted Pad Style.
- The Front Bumper is Black Painted.
- The Plow Light Harnesses are provided by the Body Company.
- We do not offer a heated windshield. Our Deforester is strong enough.
- Our brake and throttle pedal comes up from the floor. We hear of complaints of hanging pedals as well.

- Heated wipers are listed as an add-on item below.
- The Circuit Breakers are Auto Reset Type.
- Our Body Harness is 5' Back of cab.
- Equipment Operating Switches are provided by the Body Company.
- Peterbilt does not use a pre-trip check switch.
- Our Starter Motor is a Paccar brand.
- We will provide a Parts book, an Owner's Manual and a Service CD, if required

Additional Options to Consider:

5 Year/ 100,000 Mile Power Protection Plan 1..... \$1750.00

Coverage is 100% Parts and Labor with no deductible on all internally lubricated Components and major engine systems including the Turbo, Water Pump and Injectors.

5 Year/ 100,000 Mile After-Treatment Warranty..... \$740.00

Must have the above plan to purchase. Coverage is 100% Parts and Labor on the major components of the After Treatment System, including the SCR DPF Module.

- Aeon Overload Cushion System for Front Right Spring. . . . \$2,055.00
- Shifter Pad Re-Mount to Console . . . . . \$781.00
- Heated Windshield Wipers . . . . . \$695.00

Please feel free to contact me at 608.241.4101 with any questions. Thank you for the opportunity to earn your business.

Sincerely,



Sam Landes  
Sales Executive  
JX Peterbilt – Madison



**Peterbilt Of Wisconsin (P130)**  
**4205 Anderson Road**  
**Deforest, Wisconsin 53532**

**Village of Windsor**  
**4084 Mueller Rd**  
**Windsor, Wisconsin 53532**  
**United States of America**

**Sam Landes**  
**Cell Phone:**  
**Office Phone: (608)241-4101**  
**Email: slandes@jxe.com**

**Davis Clark**

## Vehicle Summary

	<b>Unit</b>		<b>Chassis</b>	
Model:		Model 348	Fr Axle Load (lbs):	20000
Type:		Full Truck	Rr Axle Load (lbs):	40000
Description 1:		VILLAGE OF WIDSOR	G.C.W. (lbs):	60000
Description 2:		tandem		
	<b>Application</b>		<b>Road Conditions:</b>	
Intended Serv.:		Snowplow	Class A (Highway)	100
Commodity:		Other Commodity	Class B (Hwy/Mtn)	0
			Class C (Off-Hwy)	0
	<b>Body</b>		Class D (Off-Road)	0
Type:		Tank	Maximum Grade:	6
Length (ft):		10	Wheelbase (in):	180
Height (ft):		13.5	Overhang (in):	70
Max Laden Weight (lbs):		1000	Fr Axle to BOC (in):	69.8
	<b>Trailer</b>		Cab to Axle (in):	110.2
No. of Trailer Axles:		0	Cab to EOF (in):	180.2
Type:			Overall Comb. Length (in):	288.2
Length (ft):		0	<b>Special Req.</b>	
Height (ft):		0		
Kingpin Inset (in):		0		
Corner Radius (in):		0		
	<b>Restrictions</b>			
Length (ft):		65		
Width (in):		102		
Height (ft):		13.5		

**Approved by:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Note: All sales are F.O.B. designated plant of manufacture.**

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Std/ Opt	Description	Weight
<b>Base Model</b>		
S	<b>Model 348</b> The Model 348 was designed to exceed the rigid demands of Class 7 and Class 8 specialty application markets that require rugged durability and a wide range of optional content. The Model 348 represents a multi-dimensional performer with a GVW from 33,000 to 66,000 lbs. and optional capacity ratings to suit almost any vocation. The 348 is also available in a specifically designed all-wheel-drive configuration. From construction and crane service to utility and delivery services in both Class 7 and Class 8 markets, the 348 is in a class by itself.	10,610
O	<b>Other Commodity</b>	0
O	<b>Snowplow</b> Truck which is configured for mounting a snowplow to the front. May also have dump or other body.	0
O	<b>Tank</b> A truck equipped to transport liquefied loads, dru bulk cargo, or gases. May be insulated or non-insulated; pressurized or non-pressurized; and designed for single or multiple loads (often by means of internal divisions in their tank).	0
S	<b>United States Registry</b> Canadian Registry Package Requires Air Conditioning Excise Tax Canada, Speedometer to be KPH ipo MPH, Daytime Running Lights and Rubber Battery Pad in Bottom of Battery Box.	0
<b>Configuration</b>		
S	<b>Not Applicable</b> Secondary Manufacturer	0
<b>Frame &amp; Equipment</b>		
O	<b>10-3/4" Steel Rails To 354"</b> 10.75x3.5x.375 Dimension, 2,136,000 RBM; Yield Strength: 120,000 psi. Section Modulus: 17.8 cubic inches. Weight: 1.74 lbs/inch pair	420
O	<b>Full Steel Inner Liner</b>	520
O	<b>Zinc Coated Anti Corrosion Treated Frame Rails</b> Requires Frame Rail Code. Zinc Phosphate coating will replace the standard frame rail primer and provide added corrosion prevention for your customer's operating in severe conditions or in climates where vehicle rust is common.	0
O	<b>Custom Wheelbase or Overhang</b> Engineering approval may be required.	0
S	<b>Three-Piece Crossmembers</b>	0
O	<b>End-of-Frame Xmbr Bolted IPO Huck Fastened</b>	0
O	<b>FEPTO Provision 27.8in Bumper Extension</b>	86

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<i>Std/ Opt</i>	<i>Description</i>	<i>Weight</i>
	Includes Crankshaft Adapter Plate and Stationary Grille Requires FEPTO Bumper.	
O	<b>EOF Square with Steel Crossmember</b>	64
S	<b>Omit Rear Mudflaps and Hangers</b>	0
<b>Front Axle &amp; Equipment</b>		
O	<b>Dana Spicer D2000F 20,000 lb, 3.5 In. Drop</b> Factory front axle alignment to improve handling & reduce tire wear. Zerk fittings on tie rod ends, king pins, & draglink ball joints for ease of maintenance & help extend service life of components. Cognis EMGARD® FE 75W-90 synthetic axle lube provides over 1% fuel economy improvement. Reduces wear & extends maintenance intervals, resulting in increased uptime. Provides improved fluid flow to protect components in extreme cold conditions & withstand the stress from high temperatures, extending component life.	144
O	<b>Taper Leaf Springs, Shocks 20,000 lb</b> Standard with Heavy Resistance Shocks.	119
O	<b>Power Steering TRW THP60 Dual</b> For use with 16,000 to 20,000 lb. axle ratings. Glidekote splines on steering shaft extend service life of components.	54
O	<b>Power Steering Reservoir Frame Mounted w/Cooler</b> A power steering cooler helps reduce the heat of the power steering fluid. This is commonly used with systems that may experience more stress from towing or off-road driving.	2
O	<b>PHP10 Iron PreSet PLUS Hubs</b> PHP10 iron PreSet PLUS hubs have a fully integrated spindle nut design, an optimized wheel spacer, magnetic fill plug on drive and trailer hubs for inspection of metal particles in lubricant, with a long life oil seal and bearings are pre-adjusted. Use with Front Axle.	-4
O	<b>Bendix Air Cam Front Drum Brakes 16.5x6</b> Includes automatic slack adjusters & outboard mounted brake drums.	5
O	<b>Dust Shields, Cam Brakes, Front Axle</b>	4
O	<b>Gusseted Cam Brackets, Steer Axle</b>	0
<b>Rear Axle &amp; Equipment</b>		
O	<b>Dana Spicer DSP41 40,000 lb</b> Interaxle diff lock air rocker occupies space of one gauge. Laser factory axle alignment to improve handling & reduce tire wear. Magnetic rear axle oil drain plug captures & holds any metal fragments in drive axle lube to extend service life. Parking brakes on all drive axles for optimal performance. Cognis EMGARD® FE 75W-90 synthetic axle lube provides over 1% fuel economy improvement. Reduces wear & extends maintenance intervals, resulting in increased uptime. Provides improved fluid flow to protect components in extreme cold conditions & withstand the stress from high temperatures, extending component life.	2,071
O	<b>PHP10 Aluminum PreSet Hubs</b>	-60

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Std/ Opt	Description	Weight
O	<b>Dust Shields For Cam Brakes, Drive Axle(s)</b>	15
O	<b>Rear Brake Camshaft Reinforcement</b> Rear brake camshaft reinforcement helps guard against wear and corrosion.	9
O	<b>Gusseted Cam Brackets, Drive Axle(s)</b>	2
S	<b>SBM Valve</b> Full trucks require a spring brake modulation (SBM) system for emergency braking application. This system requires an SBM valve and a relay valve with spring brakes on the rear axles. The SBM valve allows the foot valve to operate the rear axle spring brakes if a failure exists in the rear air system.	0
S	<b>Stability System Not Selected Or Not Available</b>	0
S	<b>Anti-Lock Braking System (ABS) 4S4M</b> ABS-6. Includes air braking system.	0
S	<b>Synthetic Axle Lubricant All Axles</b> Peterbilt heavy duty models include Fuel Efficient Cognis EMGARD FE75W-90 which provides customers performance advantages over current synthetic lubricants with reduced gear wear and extended maintenance intervals, resulting in increased uptime. In addition, the lubricant provides improved fluid flow to protect gears in extreme cold conditions and withstand the stress from high temperatures, extending component life.	0
S	<b>Bendix Air Cam Rear Drum Brakes 16.5x7</b> Bendix Air Cam Rear Drum Brakes to fit all heavy haul, construction, refuse and highway truck and tractor applications. Includes Automatic Slack Adjusters & Outboard Mounted Brake Drums.	0
O	<b>Diff Lock Tandem Axles</b> With Speed Interlock. Automatically Disengages Wheel Diff Lock at Speeds Above 25 mph.	60
O	<b>Tandem Drive Axle (Model 348)</b>	0
O	<b>Ratio 6.17 Rear Axle</b>	0
O	<b>Peterbilt Air Trac 40,000 lbs, 52in Axle Spacing</b> Light Weight	495
O	<b>Air Springs, Internal Bumpers</b> Air Trac / Air Leaf suspensions	0
O	<b>Locate Single Leveling Valve Forward Drive Axle</b> of Peterbilt Air Suspension (not avail with Low Air Leaf Susp or Low Low Air Leaf Susp)	0
O	<b>Dash Mtd Dump Switch with Indicator Light</b> Dash mounted dump switch with indicator light for suspension.	2
<b>Engine &amp; Equipment</b>		
O	<b>PACCAR PX-9 350@2000 GOV@2200 1150@1400</b> Productivity (2017 Emissions) Includes alum flywheel housing, cruise control, and J1939 provisions (provides an interface point for the	0

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Std/ Opt	Description	Weight
	Electronic Service Analysis-ESA and other PACCAR approved diagnostic tools), Chevron Delo LE SAE 10W30 engine oil is specially formulated for new low emissions engines. Magnetic engine oil drain plug captures and holds any metal fragments in engine oil to extend service life.	
	N21320 N205 120...Standard Maximum Speed Limit	
	N21470 P062 NO...Cruise Control Auto Resume (	
	N21480 P068 NO...Auto Engine Brake in Cruise	
	N21450 P026 NO...Gear Down Protection (P026)	
	N21440 P015 NO...Engine Protection Shutdown (	
	N21350 P001 64...Maximum Accelerator Pedal Ve	
	N21370 P059 64...Maximum Cruise Speed (P059)	
	N21590 P230 YES .Enable Hot Ambient Automatic	
	N21530 P233 YES...Enable Impending Shutdown Wa	
	N21540 P234 60...Timer For Impending Shutdown	
	N21460 P046 1400..Max PTO Speed (P046)	
	N21520 P030 5.....Timer Setting (P030)	
	N21570 P031 NO...Idle Shutdown Manual Overrul	
	N21610 P172 40...Low Ambient Temperature Thre	
	N21630 P171 80...High Ambient Temperature Thr	
	N21510 P520 YES...Enable Idle Shutdown Park Br	
	N21430 N201 0.....Reserve Speed Limit Offset (	
	N21410 N202 0.....Maximum Cycle Distance (N202	
	N21400 N203 252...Reserve Speed Function Reset	
	N21420 N206 10...Maximum Active Distance (N20	
	N21340 P112 120...Hard Maximum Speed Limit (P1	
	N21550 P516 100...Engine Load Threshold (P516)	
	N21620 P173 60...Intermediate Ambient Tempera	
	N21330 N207 0.....Expiration Distance (N207)	
	N21500 N209 0.....Expiration Distance (N209)	
O	<b>Engine Idle Shutdown Timer Enabled</b>	0
O	<b>Enable EIST Ambient Temp Overrule</b>	0
	<b>Eff EIST NA Expiration Miles</b>	0
	<b>Effective VSL Setting NA</b>	0
O	<b>Typical Operating Speed 55 MPH</b>	0
O	<b>Powertrain Optimized for Performance</b> Best analysis for vehicles used in vocational applications or with heavy GCWRs.	0
O	<b>Belly Pan</b>	35
O	<b>Remote PTO and Throttle Provision</b> 12-pin connector on engine harness.	0
S	<b>CARB Engine Idling Compliance</b>	0

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<i>Std/ Opt</i>	<i>Description</i>	<i>Weight</i>
	PACCAR PX-7, PX-9 and MX, Cummins X15 and ISX diesel engines will include the required factory installed serialized sticker on the drivers door to identify them as meeting the NOx idling standard.	
O	<b>200 Amp Alternator, Standard Brush</b> Bosch Long Haul Extreme, standard brush, 170-200 Amps. Dual internal cooling fans, and externally-mounted rectifier and regulator.	0
O	<b>Immersion Type Block Heater 110-120V</b> Standard location for 2.1M and 1.9M models is left-hand under cab, Model 520 is in bumper, and for Model 220 it is at the driver step. Plug includes a weather-proof cover that protects the receptacle. This pre-heater keeps the coolant in the engine block from freezing when the engine is not running.	2
O	<b>Oil Pan Heater 120V/300W</b> Oil Pan Heater 120V/300W operates via 120V ShorePower system and keeps oil warm and free flowing for instant lubrication with oil and transmission immersion heaters when the engine is not running. This option utilizes the same receptacle as the immersion pre-heater if specified together.	2
S	<b>PACCAR 12V Starter, N/A PACCAR MX Engines</b> PACCAR 12-volt electrical system. With centralized power distribution incorporating plug-in style relays. Circuit protection for serviceability, 12-volt light system w/circuit protection circuits number & color coded.	0
O	<b>3 Optima DT31T Batteries 2700 CCA Threaded</b> Stud type terminal. AGM (Absorbent Glass Material). Stranded copper battery cables are double aught (00) or larger to reduce resistance.	55
O	<b>Battery Disconnect Switches (2) Mounted in Cab LH</b> Side of Driver Seat	9
O	<b>Battery Jumper Terminal Mounted Under Hood</b> LH Frame Rail. Not available with PX-7 engines.	4
O	<b>Batteries In In-Cab Battery Box</b>	0
O	<b>2-Speed Fan Clutch For Frequent Start/Stops</b> A 2-speed fan clutch is ideal for vocational applications where the fan clutch engagement time exceeds 10% of the engine run time. When the fan clutch is disengaged, the fan still rotates at 15-25% of the engine RPM. This fan rotation provides crucial airflow to the engine and draws virtually no horsepower.	0
S	<b>18.7 CFM Air Compressor</b> N/A X15. Furnished on engine. Teflon lined stainless steel braided compressor discharge line.	0
O	<b>VGT Exhaust Brake</b> (Variable Geometry Turbo). Provides approximately 90-100 HP of retardation and is part of the turbocharger.	0
S	<b>Spin-On Fuel/Water Separator</b>	0
S	<b>No Fluid Heat Option for Fuel Filter</b>	0
O	<b>12V Heat for Fuel Filter</b> Fuel filter heaters help ensure a seamless flow of diesel from the tank to the combustion chamber. Eliminating any possibility of moisture	0

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Std/ Opt	Description	Weight
	freezing within the fuel filter while simultaneously increasing the fuel temperature for atomization within the engine.	
O	<b>Engine Protection Shutdown</b> Includes oil pressure, oil temperature, coolant temperature, and intake manifold temperature.	0
S	<b>High Efficiency Cooling System</b> Cooling module is a combination of steel and aluminum components, with aluminum connections to maximize performance and cooling capability. Silicone radiator & heater hoses enhance value, durability, & reliability. Constant tension band clamps reduce leaks. ClimaTech extended life coolant extends maintenance intervals which reduces maintenance costs. Anti-freeze effective to -30 degrees F helps protect the engine. Low coolant level sensor warns of low coolant condition to prevent engine damage. Radiator Size by Model: 579/367 FEPTO 1325 sq in, 567/365/367: 1440 sq in, 365 FEPTO: 1184 sq in, 389/367 HH: 1669 sq in, 348: 1000 sq in, 520: 1242 sq in.	0
S	<b>Radial Seal, Dry Type Air Cleaner, Frontal</b> Air intake. Molded rubber air intake connections with lined stainless steel clamps seal to prevent contaminants in air intake.	0
O	<b>Exhaust Single RH Side of Cab</b> DPF/SCR right-hand Under Cab.	29
O	<b>Curved Tip Standpipe(s)</b>	0
O	<b>24" Ht, 5" Dia Chrome, Clear Coat Standpipe(s)</b>	0
<b>Transmission &amp; Equipment</b>		
O	<b>Allison 3000 RDS-P Transmission, Gen 5</b> Rugged Duty Series. Includes Rear Transmission Support except on MX engines, Mobil Delvac Automatic Transmission Fluid, and Water-Oil Heat Exchange. Also includes features that monitor the transmission fluid, filter and clutch condition. Will display percent life remaining for the transmission fluid, filter and clutches on the shift selector. This information may be displayed using the Mode and Up and Down buttons. A wrench icon will also be included to indicate when the transmission fluid, filter or clutches need servicing. Suited for vehicles operating on/off highway and/or requiring PTO operation. Forward ratios: 1st-3.49, 2nd-1.86, 3rd-1.41, 4th-1.00, 5th-0.75, 6th-0.65. Reverse ratios: DR-(5.03).	195
O	<b>SPL170 HD-XL Driveline, 1 Midship Bearing</b>	20
O	<b>SPL170 XL Driveline Interaxle</b> Dana Spicer Life Series heavy-duty drive shafts are built for heavy loads over the long haul. For tandem rear axles.	50
O	<b>Allison FuelSense 2.0 Not Desired</b>	0
O	<b>Allison Neutral At Stop</b> Neutral at Stop features and benefits: Reduces or eliminates the load on the engine when vehicle is stopped, can help lower fuel consumption and CO2 emissions, and is included in FuelSense 2.0 Plus and Max	0

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<i>Std/ Opt</i>	<i>Description</i>	<i>Weight</i>
	packages only.	
O	<b>Allison 6-Speed Configuration, Close Ratio Gears</b> 3000 Series Transmissions.	0
O	<b>Dash Mounted Push Button Shifter</b> Available with Allison transmissions	0
<b>Air &amp; Trailer Equipment</b>		
O	<b>Bendix AD-IS EP Air Dryer, Heater</b> Bendix Air Treatment Oil Coalescing filter, extended purge. Collects and removes solid, liquid and vapor contaminants before they enter the air brake system.	6
O	<b>Pull Cords All Air Tanks</b>	0
S	<b>Nylon Chassis Hose</b>	0
S	<b>Steel Painted Air Tanks</b> All air tanks are steel with painted finish except when Code 4543330 Polish Aluminum Air Tanks is also selected (then exposed air tanks outside the frame rails will be polished aluminum). Peterbilt will determine the optimal size and location of required air tanks. Narratives requesting a specific air tank size or location will not be accepted for factory installation. See ECAT to determine number or location of air tanks installed.	0
O	<b>Body Connections 5' BOC</b> Junction box contains light and power circuits for body connections located 5' from back-of-cab	4
<b>Tires &amp; Wheels</b>		
O	<b>FF: BR 20ply 315/80R22.5 M870</b> Diameter= 42.8 inches; SLR= 19.9 inches	86
O	<b>RR: BR 16ply 11R22.5 M799</b> Diameter = 42.0 inches; SLR = 19.5 inches	72
O	<b>Code-rear Tire Qty 08</b>	0
O	<b>FF: Alcoa 89U637 22.5X9.00 Clean Buff Finish</b> Aluminum, Ultra ONE wheels with MagnaForce alloy.	-36
O	<b>RR: Alcoa 885657 22.5X8.25 Clean Buff Finish</b> Aluminum wheel severe service.	-136
O	<b>Code-rear Rim Qty 08</b>	0
O	<b>FF: Polished Wheels, Outer Surface, Sgl/Tdm Steer</b> Polish outer surface of outer wheel. Without chrome wheel nuts.	0
O	<b>RR: Polished Wheels, Outer Surface, Tandem Drive</b> Polish outer surface of outer wheels (4). Without chrome wheel nuts.	0
<b>Fuel Tanks</b>		
O	<b>26" Aluminum 70 Gallon Fuel Tank LH U/C</b>	11

Price Level: January 1, 2020  
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Std/ Opt	Description	Weight
	Includes steps for cab access. Paddle handle filler cap with threadless filler neck. Top draw fuel plumbing reduces chance of introducing air into the fuel system during low fuel level conditions due to the central placement of fuel pickup tube. Wire braid fuel lines increase durability & reduce potential for leaks.	
O	<b>Location LH U/C 70 Gallon</b>	0
O	<b>Pollish All Fuel / Hydraulic Tank Straps</b> Does not apply to rectangular DEF tank straps	0
S	<b>DEF Tank Mounted LH BOC</b> Models 220 and 520 mounted left hand back-of-cab.	0
S	<b>Standard DEF to Fuel Ratio 2:1 Or Greater</b>	0
S	<b>DEF Tank Small</b>	0
<b>Battery Box &amp; Bumper</b>		
O	<b>Omit Standard Battery Box</b> Use with passenger seat/In-cab battery box codes only	-45
S	<b>Aftertreatment Aluminum Non-Slip Cab Entry</b> Aftertreatment right-hand under cab step. DPF/SCR for diesel engines, catalyst for natural gas engines. On Models 579 specifying chassis fairings, the box is aerodynamic.	0
O	<b>Steel Bumper Swept Back Painted Black, With FEPTO</b> Two tow pin holes and step plates on top of bumper	90
<b>Cab &amp; Equipment</b>		
S	<b>Alum Cab 108in BBC Metton Hood w/Bright Crown</b> Includes view window RH door and convex mirror over RH door.	0
O	<b>Severe Service Cab Package #1</b> Includes Aluminum side skins, aluminum rear skin, steel windshield mask, steel firewall, and steel front floor sheet on all cabs, and additional reinforcement structure on the back wall of the day cab.	39
O	<b>Thermal Insulation Package In Cab</b> Includes thick, closed-cell foam in floor, special mylar-faced foam in walls and roof structure.	2
O	<b>Rubber Fender Lips 2" Wide</b>	8
O	<b>Peterbilt Premium UltraRide Driver Seat</b>	4
S	<b>Peterbilt UltraRide Passenger Seat</b>	0
O	<b>Drivers Armrests - LH &amp; RH</b>	4
O	<b>Black Seat Color IPO Standard Color</b>	0
O	<b>Mounted On In-Cab Battery Box</b> For use with non-air passenger seats only. Includes battery quick disconnect located under driver side door.	39

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<b>Std/ Opt</b>	<b>Description</b>	<b>Weight</b>
S	<b>Air Ride Driver</b>	0
S	<b>High Back Driver</b>	0
O	<b>Mordura Driver</b>	0
S	<b>High Back Passenger</b>	0
O	<b>Mordura Passenger</b>	0
O	<b>Adjustable Steering Column - Tilt/Telescope</b>	11
S	<b>Steering Wheel With Peterbilt Logo</b> Steering Wheel with embossed Peterbilt logo over horn button.	0
S	<b>Interior Gray/Black</b> Includes rugged charcoal instrument panels, glare-resistant gray dash, black bezels on gauges, (2) power ports, monochromatic molded door pads with durable in-mold color, gray molded back wall, 18 inch 4-spoke soft-touch steering wheel, soft-touch steering column cover, power lift passenger window, extruded rubber floor covering, header-mounted dome light, foot well lighting, integrated "dead pedal", (4) inside entry grab handles, (2) inside sunvisors, (2) coat hooks, (2) cup holders and map bin in dash.	0
O	<b>Extended Rear Window ipo Std Window-Day Cab</b> The extended rear window protrudes two inches more than the standard conventional rear cab window. Take this into consideration when determining your loadspace.	18
S	<b>Day Cab Rear Window</b> Day cab rear window flush to back of cab.	0
S	<b>1-Piece Curved Windshield</b>	0
S	<b>Combo Fresh Air Heater/Air Conditioner</b> With radiator mounted condenser, dedicated side window defrosters, Bi-Level Heater/Defroster Controls, 54,500 BTU/HR, and silicone heater hoses.	0
O	<b>Outside Sunvisor - Stainless Steel</b> Not available with 2.1M high roof sleeper.	4
O	<b>Mirrors SSTL Each Side Heated and Motorized</b> with Switch on Door.	2
O	<b>(2) Convex 8 Inch SSTL Mirrors</b> Center mounted under mirror bracket. If rear view mirrors are heated, the convex mirrors will be heated. Option includes dual door stops	4
O	<b>Mirror Aux RH Fender/Hood</b> (2 legs on fender and 1 leg on hood)	4
O	<b>Mirror Aux LH Fender/Hood</b> (2 legs on fender and 1 leg on hood)	4
S	<b>Power Package</b> Includes power door locks and power windows.	0
O	<b>Polished Lower Mirror Bracket Covers</b>	0

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<b>Std/ Opt</b>	<b>Description</b>	<b>Weight</b>
O	<b>(1) Air Horn 24.5" Chrome - Round w/Horn Shield</b>	8
O	<b>Standard Speaker Package For Cab</b> (2) Speakers	4
O	<b>ConcertClass Without CD, includes BT Phone and</b> Audio, AM/FM, WB, USB and MP3.	10
O	<b>CB Terminals/Wiring Mounted Under Header</b>	0
O	<b>CB Antenna Mounting, LH Mirror</b> Available with Rami only on 1.9m, available without Rami on medium duty	1
O	<b>Radio Antenna Mounted on LH Mirror Bracket</b>	0
O	<b>Plug-In Auto Reset Circuit Breaker</b> In place of fuses in junction box.	0
S	<b>Peterbilt Electric Windshield Wipers</b> With Intermittent Feature.	0
O	<b>CabMate Cab Air Suspension</b> Mfg by Link. The class 8 conventionals (except Model 348) includes (2) airbags, (2) shock absorbers, (1) leveling valve, radius rod, and height limiter. The Models 330, 337, and 348 includes (1) airbag and (1) shock absorber.	15
O	<b>Triangle Reflector Kit, Ship Loose</b> Florescent triangle emergency road flares are designed to meet and exceed all DOT standards.	13
O	<b>Fire Extinguisher, Cab Mounted</b> Hazmat approved UL listed/rated ABC	8
O	<b>Backup Alarm (107 DB)</b>	3
O	<b>Main Transmission Oil Temperature Gauge</b> Located In Driver Information Display	0
S	<b>Air Restriction Indicator</b> Mounted on air cleaner, intake piping, or firewall	0
O	<b>Bright Bezel Gauges</b>	0
S	<b>Main Instrumentation Panel, Graphics Display</b> Includes speedometer with trip odometer, tachometer with hourmeter and outside air temperature display, voltmeter, engine oil pressure, engine coolant temperature, fuel level, primary and secondary air pressure gauges. Includes standard warning light package: high water temperature, low oil pressure, and low air pressure warning lights with audible alarms, high beam, turn signal, low fuel, parking brake, and ice warning indicators; seat belt reminder; rocker switches with long-life LED indicators; multi-function turn stalk with flash-to-pass feature (night mode flashes headlights and marker lights; day mode flashes headlights only), intermittent windshield wiper and headlamp beam control. Hydraulic braked trucks do not include air pressure gauges.	0
O	<b>Dual Output Sensors For Road &amp; Engine Speed</b>	0

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Date: February 24, 2020  
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Std/ Opt	Description	Weight
	Terminals routed to back of cab / front of sleeper	
S	<b>Headlights Composite Fender Mounted</b> Integral park, turn, and side marker	0
S	<b>(5) Marker Lights, Aero LED</b>	0
O	<b>Daytime Running Lights</b> The brake interlock turns the daytime running lights off when the parking brakes are engaged. This is required on all Canadian vehicles.	0
O	<b>(2) Additional Dome/Reading Lights, Ceiling Mtd</b>	0
O	<b>LED Stop/Turn/Tail/Backup</b> Bracket mounted left-hand / right-hand end of frame	-7
<b>Paint</b>		
S	<b>Standard Paint Color Selection</b>	0
S	<b>(1) Color Axalta Two Stage - Cab/Hood</b> Base Coat/Clear Coat N85020 A- F8802EY OMAHA ORANGE N85500 CAB ROOF F8802EY OMAHA ORANGE N85300 FENDER F8802EY OMAHA ORANGE N85200 FRAME L0001EA BLACK N85400 HOOD TOP F8802EY OMAHA ORANGE	0
<b>Shipping Destination</b>		
O	<b>Shipping Destination To Dealership</b>	0
<b>Options Not Subject To Discount</b>		
S	<b>Peterbilt Class 7 Standard Coverage</b> 1 year/Unlimited Miles/km	0
S	<b>PACCAR PX-9 Standard Coverage</b> 2 yrs/250,000 mi (402,336 km)/6,250 hrs	0
O	<b>Vehicle Layout</b> Option is not subject to discount. Fleets will be split prior to build so that the charge is applied to only one unit. Quotes will not reflect this.	0
<b>Miscellaneous</b>		
S	<b>2017 EPA Emissions Engine</b> Warranty Only	0
O	<b>Presentation Created With SmartSpec</b>	0

### Promotions

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Quantity

Std/  
Opt

Description

Weight

Order Comments



Total Weight

15,269

## Prices and Specifications Subject to Change Without Notice.

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Unpublished options may require review/approval.

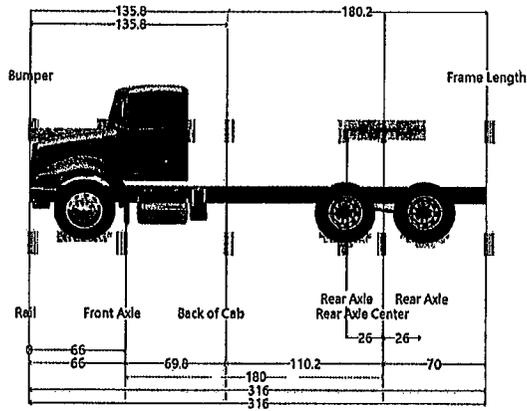
Dimensional and performance data for unpublished options may vary from that displayed in CRM.

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### **PRICING DISCLAIMER**

*While we make every effort to maintain the web site to preserve pricing accuracy, prices are subject to change without notice. Although the information in this price list is presented in good faith and believed to be correct at the time of printing, we make no representations or warranties as to the completeness or accuracy of this information. We reserve the right to change, delete or otherwise modify the pricing information which is represented herein without any prior notice. We carefully check pricing specifications, but occasionally errors can occur, therefore we reserve the right to change such prices without notice. We disclaim all liability for any errors or omissions in the materials. In no event will we be responsible for any damages of any nature whatsoever from the reliance upon information from these materials. Please check your order prebills to confirm your pricing information*

## HORIZONTAL DIMENSIONS



Dimension	Measurement	Start	End
Axle Spacing	52	154	206
Bumper to Back of Cab	135.8	-66	69.8
Bumper to Front Axle	66	-66	0
Bumper to Front Frame	0	66	66
Cab to End of Frame	100.2	69.8	250
Cab to Rear Axle	110.2	69.8	180
Effective Bumper to Back Of Cab	135.8	66	69.8
Frame Length	316	66	250
Front Axle to Back of Cab	69.8	0	69.8
Front of Frame to Axle	66	-66	0
Load Space	180.2	69.8	250
Overall Length	316	66	250
Overhang	70	180	250
Pusher Offset #1	0	154	180
Pusher Offset #2	0	154	180
Pusher Offset #3	0	154	180
Tag Offset	0	180	206
Wheelbase	180	0	180

## FRAME LAYOUT



**Note:** The image displayed is representative only. It should not be construed as a layout diagram. Dimensions and components are not to scale.

### Selected Options (Wheelbase: 180)

Sales Code	Description	Length	Side
6040550	Aftertreatment Aluminum Non Slip Cab Entry	45.3	Right
5655019	DEF Tank Small	6	Left
5554100	26" Aluminum 70 Gallon Fuel Tank LH U/C	36.15	Left
6010390	Omik Standard Battery Box	12	Center

**Cruise Report (Engine Fan Off)**

Configuration:	Model 348 / Full Truck GCW: 60000
Quote/DTP/CO:	QUO-591622-P8T9K1
Engine:	2074406 PACCAR FX-9 350@2000 GOV@2200 1160@1400
Transmission:	4052110 Allison 3000 RDS-P Transmission, Gen 5
Rear Axle:	1523300 Dana Spicer DSP41 40,000 lb
Rear Tire:	5169310 RR; BR 16ply 11R22.5 M769   Revs/Mile: 493
Operating Conditions:	0% Rolling Resistance

Startability	
Transmission Ratio	Maximum Starting Grade
3.49	17.13
1.66	9.13

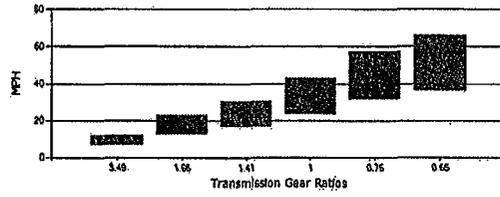
Engine RPM:	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
Gross Torque:	1025	1088	1150	1142	1125	1066	1007	954	920	850	765
Net Torque:	931	991	1050	1044	1029	976	922	873	842	778	699
Net HP:	213	245	280	288	314	316	316	316	321	311	293

Gear Ratio: TRN (1): 3.49 RAX (1): 6.17											
Speed (MPH):	6.8	7.3	7.9	8.4	9.0	9.6	10.1	10.7	11.3	11.8	12.4
Grade (%):	19.3	20.7	22.0	21.9	21.5	20.3	19.1	18.0	17.4	15.9	14.2
Gear Ratio: TRN (2): 1.66 RAX (1): 6.17											
Speed (MPH):	12.7	13.7	14.8	15.8	16.9	18.0	19.0	20.1	21.1	22.2	23.2
Grade (%):	9.8	10.5	11.2	11.1	11.0	10.3	9.7	9.2	8.8	8.1	7.2
Gear Ratio: TRN (3): 1.41 RAX (1): 6.17											
Speed (MPH):	16.7	18.1	19.5	20.9	22.3	23.7	25.1	26.5	27.9	29.3	30.7
Grade (%):	7.3	7.8	8.3	8.2	8.1	7.7	7.2	6.8	6.5	6.0	5.3
Gear Ratio: TRN (4): 1 RAX (1): 6.17											
Speed (MPH):	23.6	25.5	27.5	29.5	31.4	33.4	35.4	37.3	39.3	41.3	43.2
Grade (%):	4.9	5.3	5.7	5.8	5.5	5.2	4.9	4.6	4.4	4.0	3.6
Gear Ratio: TRN (5): 0.75 RAX (1): 6.17											
Speed (MPH):	31.4	34.1	36.7	39.3	41.9	44.5	47.1	49.8	52.4	55.0	57.6
Grade (%):	3.5	3.8	4.1	4.0	4.0	3.7	3.5	3.3	3.1	2.8	2.5
Gear Ratio: TRN (6): 0.58 RAX (1): 6.17											
Speed (MPH):	38.3	39.3	42.3	45.3	48.4	51.4	54.4	57.4	60.4	63.5	66.6
Grade (%):	3.0	3.2	3.4	3.4	3.4	3.1	2.9	2.7	2.6	2.4	2.1

Engine RPM:	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200
Gross Torque:	1025	1088	1150	1142	1125	1066	1007	954	920	850	765
Net Torque:	931	991	1050	1044	1029	976	922	873	842	778	699
Net HP:	213	245	280	288	314	316	316	316	321	311	293

**Gear Speed Report (Engine Fan Off)**

Configuration:	Model 348 / Full Truck GCW: 60000
Quote/DPO/CO:	QUO-691522-P819K1
Engine:	2074408 PACCAR PX-9 350@2000 GOV@2200 1150@1400
Transmission:	4052110 Allison 3000 RDS-P Transmission, Gen 5
Rear Axle:	1623300 Dana Spicer DSP41 40,000 lb
Rear Tire:	5166310 RR: BR 16ply 11R22.5 M769   Revs/Mi: 495
Operating Conditions:	0% Rolling Resistance



February 24, 2020

Village of Windsor  
4084 Muller Rd  
DeForest, WI 53532

## Proposal 2021 Mack GR64BR Tandem Axle Patrol Truck With MP7 355HP

Sale Price

\$104,853

Dealer Included  
Complete pre-delivery inspection with DOT paperwork

Dealer Not Included  
Title and Registration and Doc Fees  
State or Federal sales Tax

Customer Acceptance \_\_\_\_\_

Dealer \_\_\_\_\_



**MACK**



# TECHNICAL SPECIFICATION

## GRANITE 64BR

			WEIGHT (LB)	
APPLICATION PACKAGES		DESCRIPTION	FRONT	REAR
	PK80G8	GRANITE AB CONFIG PKG.	0	0
S	MBP02P	BODY BUILDER PACKAGE	0	0

			WEIGHT (LB)	
CUSTOMER/VEHICLE INFO		DESCRIPTION	FRONT	REAR
S	002E02	CHASSIS (BASE MODEL)	5,148	1,987
S	99X93X	ASSEMBLY PLANT	0	0
S	MP2001	CUSTOMER FLEET SIZE	0	0
S	013001	TYPE OF SERVICE	0	0
S	M98018	WARRANTY REGISTRATION LOCATION	0	0
S	505015	INITIAL REGISTRATION LOCATION	0	0
S	534014	LANGUAGE-PUBS/DECAL/SIGNS	0	0
S	DHX10X	ROAD CONDITION	0	0
	0051L5	VEHICLE USE & BODY/TRAILER TYPE	0	0
S	DKX99X	GROSS COMBINATION WEIGHT	0	0
S	70BB1X	BRAKE REGULATION	0	0
S	QCXB1X	TOPOGRAPHY	0	0
S	E1BD1X	AMBIENT TEMP UPPER LIMIT (GTA)	0	0
S	032A89	TERRAIN GRADE	0	0
S	033A10	LOADING SURFACE	0	0
S	0342A2	VEHICLE VOCATION	0	0

ENGINE/TRANSMISSIONS		DESCRIPTION	WEIGHT (LB)	
			FRONT	REAR
	1000U0	ENGINE PACKAGE, COMBUSTION	2,549	-231
	136AX6	TRANSMISSION	545	181
S	V4EZ9X	GEARBOX 12TH GEAR LOCK-OUT	0	0

EXHAUST/EMISSIONS		DESCRIPTION	WEIGHT (LB)	
			FRONT	REAR
S	CIRAA4	CARB 2008 IDLE REGULATION	0	0
S	DPF04F	DPF DIESEL PARTICULATE FILTER	0	0
S	8NAA1X	DPF COVER	0	0
S	DF1001	DEF TANK	0	0
S	130AB6	EXHAUST	0	0
S	KRXB5X	EXHAUST STACK HEIGHT	0	0
S	Q0AA1X	EXHAUST SYSTEM MATERIAL FINISH	0	0
	78AC8X	EMISSION ON BOARD DIAG CONTROL	0	0

ENGINE EQUIPMENT		DESCRIPTION	WEIGHT (LB)	
			FRONT	REAR
	125095	AIR CLEANER	0	0
	121AA8	BUG SCREEN	0	0
S	VWXA2X	COMPRESSOR CAPACITY	0	0
S	VHXE4X	AIR DRYER - MANUFACTURER	3	3
S	132AB4	ALTERNATOR	16	0
	316AA8	BATTERIES	7	3
S	393AB0	BATTERY BOX - MOUNTING	0	0
S	L5XA1X	BATTERY BOX COVER	0	0
	LLXC1X	EMERGENCY START CONNECTIONS	7	0
S	NCXA5X	STARTER MOTOR	31	0
S	110AA5	ENGINE BRAKE	0	0
S	JMxB1X	ENGINE BRAKE LIGHTING (CA)	0	0
S	118AB8	FAN DRIVE	0	0
S	119A19	COOLANT PROTECTION	0	0
S	124AA3	HOSES - RADIATOR/HEATER	0	0
	293AA3	FUEL-WATER SEPARATOR	9	0
S	MBXA1X	PRIMARY FUEL FILTER POSITION (CA)	0	0
	MCA04B	ENGINE HEATERS	0	0
	5NXA1X	ENGINE BLOCK HEATER	5	0
	NDXA1X	ENGINE STARTING AID	7	0
S	QHXC1X	OIL PAN	0	0
S	2YBZ1X	ENGINE STOP, EMERGENCY (CA)	0	0

PRICELIST DATE	QUOTATION	DATE	PAGE	CUSTOMER NAME	DEALER NAME
20190812	KRIE2019000130D862	2/24/2020	2 of 22	VILLAGE OF WINDSOR	KRIETE TRUCK CENTER MADISON,

**TECHNICAL SPECIFICATION (cont.)**



			WEIGHT (LB)	
CLUTCH/TRANS EQUIPMENT		DESCRIPTION	FRONT	REAR
	492007	GEAR SHIFTER	0	0
	195AA9	DRIVELINE - MAIN	-4	-4
	204AA5	DRIVELINE - INTERAXLE	0	0
	76AA1X	PROPELLR SHAFT MAIN, UNVSL JNT	0	0
S	8WAAAX	PROP SHAFT INTERAXL UNIV JOINT	0	0
S	4LDA1X	TRANSMISSION OUTPUT TORQUE	0	0
S	RCXB1X	BELL HOUSING	0	0
	7RXAEX	LUBRICANTS, TRANSMISSION	0	0
	139AA7	TRANSMISSION OIL COOLER	0	0

			WEIGHT (LB)	
FRONT AXLE EQUIPMENT		DESCRIPTION	FRONT	REAR
	240AA3	FRONT AXLE	428	0
	244AB4	SPRINGS - FRONT	27	0
S	241081	FRONT AXLE BRAKES	29	0
S	U3XA1X	BRAKE, FRONT	0	0
	UDXA1X	FRONT AXLE BRAKE DUST SHIELD	5	0
S	U0AA1X	FRONT BRAKE ADJ. MANUFACTURE	0	0
S	V7AD1X	FRONT BRAKE CHAMBER MFG.	0	0
S	0KXA1X	HUB MATERIAL, FRONT	157	0
S	1KAA1X	SHOCK ABSORBER, FRONT	0	0
S	245AA3	STEERING	175	0
S	7VXC1X	LUBRICANTS, FRONT AXLE	0	0

			WEIGHT (LB)	
REAR AXLE EQUIPMENT		DESCRIPTION	FRONT	REAR
	268AB4	REAR AXLES - TANDEM	0	1,447
S	6MAA1X	REAR AXLE CASING WIDTH	0	0
S	018AA6	CARRIER - REAR AXLE	0	0
	TAXGHX	REAR AXLE RATIO	0	0
	186AC6	REAR SUSPENSION - TANDEM	0	1,528
	GWXDGX	BOGIE SPREAD, REAR	0	3
	YVXA1X	REAR SHOCK ABSORBER	0	0
	UGXA1X	AUX.PARKING BRAKE CHAMBERS	0	20
S	253AA4	BRAKES - REAR	0	-35
	MAXCAX	BRAKE LINING MATERIAL DRIVE	0	0
S	U4XA1X	BRAKE, DRIVE, REAR	0	0
S	U1AA1X	REAR BRAKE ADJ MANUFACTURE	0	0
	UEXA1X	DRIVE AXLE BRAKE DUST SHIELD	0	12
S	V1AB1X	REAR BRAKE CHAMBER SIZE	0	0

PRICELIST DATE	QUOTATION	DATE	PAGE	CUSTOMER NAME	DEALER NAME
20190812	KRIE2019000130D862	2/24/2020	3 of 22	VILLAGE OF WINDSOR	KRIETE TRUCK CENTER MADISON,

**TECHNICAL SPECIFICATION (cont.)**



				WEIGHT (LB)			
REAR AXLE EQUIPMENT		DESCRIPTION	FRONT	REAR			
S	300AD0	REAR BRAKE CHAMBER	MGM TR-T; TAMPER-RESISTANT BRAKE CHAMBERS (Total for QTY = 2)			0	0
S	0LXI6X	HUB MATERIAL, DRIVE	IRON PRESET REAR HUB W/INTEGRATED SPINDLE NUT			0	318
S	3LAC1X	POWER DIVIDER LOCKOUT	POWER DIVIDER LOCKOUT, W/BUZZER & LIGHT			0	40
S	7WXA1X	LUBRICANTS, REAR AXLE(e)	FACTORY OPTION LUBE - REAR AXLE			0	0
	254AB5	TRACTION DIFFERENTIAL	DRIVER CONTROLLED INTER WHEEL DIFFERENTIAL LOCK ALL RR AXLES, MANUAL AIR VALVE W/WARNING LIGHT.			0	18
S	9GAAAX	ABS SENSOR & MODULATOR	4S/4M SYSTEM REAR WHEEL END SENSORS			0	0
S	698AA5	ANTILOCK BRAKE SYSTEM	BENDIX WITH TRACTION CONTROL			0	0
S	URXD1X	BRAKE VALVE VERSION	BENDIX SWITCHES AND VALVES WHERE POSSIBLE			0	0
S	3ZAA1X	SPRING BRAKE INVERSION VALVE	TRACTOR SPRING BRAKE INVERSION VALVE			5	0

				WEIGHT (LB)			
FRAME EQUIPMENT/FUEL TANKS		DESCRIPTION	FRONT	REAR			
	271186	WHEELBASE	186"			12	12
	374067	AF (OVERHANG)	67"			-13	214
	274AA7	FRAME RAILS	STEEL - 300MM X 90MM X 9.5MM -- (11.81" X 3 54" X 0.37")			0	0
S	5CAAAX	FRONT FRAME EXT. (BOLTED ON)	6" BOLT ON FRAME EXTENSION			155	-2
S	A0XK1X	FRONT FRAME LENGTH	STANDARD BUMPER POSITION			31	-4
S	281AA5	CROSSMEMBERS	BOC AND INTERMEDIATE(S) STEEL HD BACK-TO-BACK CHANNEL			0	0
S	Q5AA1X	REAR CROSSMEMBER OPTIONS	FURNISH STANDARD STEEL CLOSING REAR CROSSMEMBER			0	0
	69XD3X	MUDFLAP HANGERS, REAR AXLE	BETTS B87 SERIES WITH CONSPICUITY FEATURE(FMVSS 108)			0	27
	67XG1X	MUDFLAP TYPE, REAR AXLE	MUD FLAP, BLACK WITH WHITE "MACK" LETTERS			0	9
S	4DXM9X	FRONT BUMPER	EXTENDED-SWEPT BACK-STEEL			0	0
S	4EXG1X	TOWING DEVICE, FRONT	HOOKS			0	0
S	2RAA1X	FUEL LEVEL SENDER UNIT, LIQUID	BASIC FUEL LEVEL SENDER MOUNTED ON L.H TANK			0	0
	288AF5	FUEL TANK - LH	88 GALLON (335 L) 22" ALUMINUM, SLEEVED D-SHAPED			89	42
S	290AA1	FUEL TANK - RH	W/O RH FUEL TANK			0	0
S	JHXB1X	FUEL HOSES, LIQUID	BRAIDED HOSE			5	3
	12AA1X	FUEL LINE OPTIONS, LIQUID	W/O FUEL LINE OPTION			0	0
S	KFXA1X	FUEL TANK CAP	NON-LOCKABLE FUEL TANK CAP			0	0
S	Q2AA1X	CAB INSTEP VERSION	STANDARD 2 STEP CAB ACCESS			0	0
	223AA2	STEPS (BRIGHT) - FUEL TANK	BRIGHT FINISH ALUMINUM STEPS & STAINLESS STEEL BRIGHT FINISHED STRAPS			0	0

				WEIGHT (LB)			
AIR/BRAKE		DESCRIPTION	FRONT	REAR			
S	UWXC1X	AIRTANK DRAIN VALVE	MANUAL (PETCOCK) DRAIN VALVES ON ALL TANKS			0	0
S	U2XB1X	AIRTANK MATERIAL	STEEL			0	0
S	KOXA1X	AIR DRYER POSITION (CA)	W/O RELOCATION OPTION			0	0
S	141AA1	RELOCATE AIR RESERVOIRS	W/O RELOCATED AIR TANKS			0	0
S	1JAAAX	PARKING BRAKE VALVE	SINGLE VALVE SYSTEM			0	0

ELECTRICAL	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 5RXA6X	BACK-UP ALARM ECCO BACK-UP ALARM 575 CONSTANT SOUND LEVEL 107 dB	0	3
S 5FBB1X	MARKER/DIRECTIONAL SIGNAL W/O MARKER/DIR SIGNAL OPTION	0	0
S 312AA6	ROOF MARKER LIGHT (5) TRUCKLITE LED CHROME BULLET TYPE LAMPS	3	0
S LSXH1X	DAYTIME RUNNING LIGHTS DRL WHEN ENGINE RUNNING & PARK BRAKE OFF	0	0
S NEXC1X	TAIL LAMPS INCANDESCENT TAIL LAMPS	0	0

TRAILER CONNECTIONS	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S WGXB1X	TRAILER BRAKE VALVE W/O HAND CONTROL VALVE	-6	0
S 3SAZ1X	TRAILER CONNECTORS HOLDER OMIT TRAILER CONNECTORS HOLDER	3	0

PTO	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
TYXE1X	POWER TAKE OFF CONTROL TRANSMISSION PTO SWITCH AND LIGHT WITH WIRING AND PIPING FOR LOCAL INSTALLATION	3	0
S 2WAZ1X	PTO TRANS NEUTRAL CONTRL CHECK W/O NEUTRAL CONTROL	0	0
S B83083	BODY BUILDER INTERFACE BODY LINK III W/CAB PASS-THRU	5	5

SPECIALTY EQUIPMENT	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 2QEZ1X	BLINDSPOT DETECTION ALARM WITHOUT BLINDSPOT DETECTION AUDIO ALARM DISABLE	0	0

CAB INTERIOR (A THRU G)	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S 198048	GAUGES - UNIT OF MEASURE U.S. UNITS (PREDOMINANT)	0	0
S 173AA5	AIR CONDITIONING/HEATER BLEND AIR HVAC W/"ATC" TEMP REGULATION	0	0
S 10XAHX	DOME LAMP, INTERIOR (4) DOME LAMPS - DOOR AND SWITCH ACTIVATED	0	0
S 3XAA1X	DASH INDICATOR - LAMP BODY OUT OF POS DASH MTD, INDICATOR BODY/HOIST UP "BODYBUILDER LAMP"	0	0
184AA3	FLOOR COVERING POLYURETHANE FLOOR MAT W/ REMOVABLE INSERTS	16	0

CAB INTERIOR (H THRU R)	DESCRIPTION	WEIGHT (LB)	
		FRONT	REAR
S C52082	INSTMNT CLUSTER LANGUAGE DEFAULT ENGLISH, SPANISH, FRENCH	0	0
S 20XA1X	KEY TYPES FOR DOORS ALL CHASSIS KEYED AT RANDOM	0	0
S 13AA1X	DOOR OPENING OPTIONS W/O ELECTRONIC KEYLESS ENTRY	0	0
S 17400N	AUDIO ACCOMMODATION PREMIUM STEREO, AM/FM, CD-PLAYER, MP3, WEATHER BAND, BLUETOOTH	0	0
73AJ1X	ANTENNA - RADIO 48" ANTENNA RIGHT SIDE MIRROR MOUNTED	0	0
5BXB5X	ANTENNA - CB RADIO 48" ANTENNA LEFT SIDE MIRROR MOUNTED	0	0
S 0LAA1X	AUDIO SHUTOFF AUTO SHUTOFF FOR RADIO ENTERTAINMENT SYSTEM WHEN VEHICLE IS ENGAGED IN REVERSE	0	0
S 1WAB1X	POWER LEADS POWER LEADS (6-WAY BINDING POSTS FOR CB RADIO) IN HEADER CONSOLE	0	0
S 5CXB2X	AUDIO SPEAKER LOCATION SPEAKER LOCATION, IN DOORS, MIDDLE HIGH SIDE PANEL	0	0

PRICELIST DATE	QUOTATION	DATE	PAGE	CUSTOMER NAME	DEALER NAME
20190812	KRIE2019000130D862	2/24/2020	5 of 22	VILLAGE OF WINDSOR	KRIETE TRUCK CENTER MADISON,

				WEIGHT (LB)	
				FRONT	REAR
CAB INTERIOR (H THRU R)					
S	5JXAIX	COM.RADIO PREP KIT (CB)	CB RADIO MOUNTING REINFORCEMENT IN HEADER CONSOLE	0	0
S	21XA1X	AUXILIARY REAR WINDOW	REAR WINDOW (FIXED TYPE)	0	0
S	IFXB1X	REAR WALL STORAGE COMPARTMENT	STORAGE POUCH REAR	0	0

				WEIGHT (LB)	
				FRONT	REAR
CAB INTERIOR (S THRU Z)					
	004034	INTERIOR TRIM LEVELS	PREMIUM PACKAGE, STEEL GRAY (Package 12A)	0	0
S	196AAA	SEAT - DRIVER'S	MACK-AIR, HIGH BACK, 1 CHAMBER AIR LUMBAR	0	0
S	MAPB2X	SEAT COVERING - DRIVER'S	DRIVER'S SEAT - STEEL GREY VINYL	0	0
S	197AA1	SEAT - PASSENGER'S	MACK-FIXED, HIGH BACK	0	0
S	MAQB2X	SEAT COVERING - PASSENGER'S	PASSENGER'S SEAT - STEEL GREY VINYL	0	0
	3PXC1X	SEAT ARMREST	INBOARD MOUNTED ARM REST, DRIVER'S & RIDER'S SEAT	5	3
S	592092	SEAT BELT(S)	LAP & SHOULDER (BOTH SEATS) CAB MOUNTED SHOULDER BELT ADJUSTMENT (NOT AVAIL W/EXTENDED RIDER SEAT)	0	0
S	2QAA1X	IGNITION TYPE	KEY TYPE	0	0
	161021	STEERING WHEEL	2 SPOKE LEATHER GRIP, SATIN ALUMINUM SPOKES, WITH SWITCHES	0	0
S	WSXBAX	WINDSHIELD TYPE	2-PIECE WINDSHIELD	0	0
	145AA5	CAB GLASS	HEATED TINTED WINDSHIELD, TINTED SIDE AND REAR WINDOW	0	0
S	JQXAAX	WASHER RESERVOIR POSITION	W/O WINDSHIELD WASHER OPTION	0	0
S	148AA3	WINDSHIELD WIPERS	2 SPEED ELECTRIC MOTOR W/INTERMITTENT FEATURE	0	0

				WEIGHT (LB)	
				FRONT	REAR
CAB - SLEEPER BOX					
S	768018	SLEEPER BOX - WINDOW	WITHOUT SLEEPER BOX WINDOWS	0	0

				WEIGHT (LB)	
				FRONT	REAR
CAB EXTERIOR					
S	0EAB1X	AIR INTAKE GRILLE, FINISH	GRILLE PAINTED GRAY	0	0
S	4UAA1X	HOOD LATCH, FINISH	PAINTED HOOD LATCHES	0	0
S	400AA4	GRILLE	SILVER PAINTED W/O GRILLE SURROUND	0	0
S	Q4XADX	DOOR WINDOW FRONT	PEEP WINDOW ON PASSENGER SIDE DOOR	0	0
	43X40X	MIRRORS - PROXIMITY	RECTANGULAR CONVEX ABOVE RH DOOR WINDOW	3	0
S	2KXB1X	FRONT WHEEL OPENING	FENDER EXTENSIONS	5	0
S	5870G7	GRAB HANDLES	PREMIUM BLACK EXTERIOR CAB GRAB HANDLE, BLACK GRAB HANDLE RH INTERIOR WINDSHIELD POST	0	0
S	2DX90X	REAR CAB SUSPENSION	REAR CAB SUSPENSION, AIR	0	0
S	154AA2	HORN - AIR	(1) MACK RECTANGULAR SINGLE TRUMPET	5	0
S	LXXC1X	HORN - ELECTRICAL	SINGLE TONE	0	0
	1520D2	MIRRORS - EXTERIOR	FLAT MIRROR - POLISHED ALUMINUM FINSH, HEATED, WITH LAMPS	0	0
S	153AA2	MIRRORS - CONVEX TYPE CAB DOORS	BRIGHT FINISH, LH & RH, 8" DIAMETER CONVEX	0	0
	157037	SUN VISOR - EXTERIOR	SUN VISOR, EXTERIOR, STAINLESS STEEL (UNPAINTED)	9	0

WHEELS & TIRES		DESCRIPTION	WEIGHT (LB)		
			FRONT	REAR	
S	900AW0	TIRES BRAND/TYPE - FRONT	315/80R22.5 L BRIDGESTONE M843 (MAX SPEED 65MPH) (18180 lbs) (Total for QTY = 2)	278	0
	4WCE1X	GHG STEER TIRE CATEGORY (PAWS)	BASIC ROLLING RESISTANCE, POOR FUEL ECONOMY	0	0
S	5310L1	WHEELS - FRONT	22.5x9 00 ALCOA ULTRA ONE ALUM DISC 10-HP; 11.25" BC, 5.96"INSET (Total for QTY = 2)	111	0
S	49AALX	WHEEL FINISHING, FRONT	MACHINE CLEAN BUFFED-ALL WHEELS (Total for QTY = 2)	0	0
S	FWT002	FRONT AXLE TIRE & WHEEL QUANTITY	TWO FRONT TIRES & WHEELS	0	0
S	901601	TIRES BRAND/TYPE - REAR	11R22.5 G BRIDGESTONE M713 ECOPIA (23360 lbs) (DRIVE ONLY) (recommended replacement for 901 1343) (Total for QTY = 8)	0	953
S	4XCA1X	GHG DRIVE TIRE CATEGORY (PAWS)	ADVANCED LOW ROLLING RESISTANCE, BEST FUEL ECONOMY	0	0
S	3460B6	WHEELS - REAR	22.5x8.25 ALCOA ULTRA ONE ALUM DISC 10-HP, 11.25"BC, 6.80"OUTSET #ULTRAX (Total for QTY = 8)	0	318
S	2350E5	REAR DISC WHEEL:POLISH	MACHINE CLEAN BUFFED - ALL WHEELS (Total for QTY = 8)	0	0
	44AALX	WHEEL FINISHING, REAR	MACHINED BUFF	0	0
S	RWT008	REAR AXLE TIRE & WHEEL QUANTITY	EIGHT REAR AXLE TIRES & WHEELS	0	0
S	H1EB1X	DRIVE WHEEL STUDS	DRIVE WHEEL STUDS LONGER LENGTH	0	0
S	15XABX	TIRE INFLATION VALVE	STANDARD VALVE STEMS AND CAPS	0	0
S	MCH03H	FRONT HUB/WHEEL TRIM	WITHOUT FRONT HUB/WHEEL TRIM	0	0
S	MCI03I	REAR HUB/WHEEL TRIM	WITHOUT REAR HUB/WHEEL TRIM	0	0
	0XXZ1X	WHEEL TRIM PACKAGE DRIVE AXLE	WITHOUT WHEEL TRIM PACKAGE DRIVE	0	0
S	80AA1X	WHEEL NUT & FINISH, FRONT	WHEEL NUT BASIC FINISH, FRONT	0	0
S	3PBA1X	WHEEL NUT FINISH, REAR (CA)	WHEEL NUT BASIC FINISH, REAR	0	0

COMMUNICATION SYSTEMS		DESCRIPTION	WEIGHT (LB)		
			FRONT	REAR	
S	3YAA1X	CO-PILOT - DISPLAY FEATURES ACCESS LEVEL	CO-PILOT DISPLAY, DRIVER ACCESS LEVEL 1	0	0
S	M30060	TELEMATIC GATEWAY	TELEMATICS GATEWAY, 4G/LTE AND WLAN SYSTEM WITH DIAGNOSTIC SERVICES	0	0

ENGINE ELECTRONICS		DESCRIPTION	WEIGHT (LB)		
			FRONT	REAR	
S	WOXA1X	OIL PRESSURE, ENGINE SHUTDOWN	OIL PRESSURE, ENGINE SHUTDOWN	0	0
S	WMXA1X	COOLANT TEMP, ENGINE SHUTDOWN	COOLANT TEMP, ENGINE SHUTDOWN	0	0
S	K5XA2X	ENGINE PROTECTION SYSTEM	ENGINE PROTECTION (SHUTDOWN)	0	0
S	K7XH3X	ENGINE IDLE CONTROL	IDLE CONTROL, 650 RPM	0	0
S	X0AB0X	SMART IDLE ELEVATED IDLE RPM TIME	INCREASE 10 MINUTE MAXIMUM TIME	0	0
S	M3CA1X	IDLE S/D ABS TAMPER CHECK	IDLE SHUTDOWN ABS TAMPER CHECK, ENABLED	0	0
S	B1ACAX	IDLE S/D WARNING TIME	30 SEC IDLE S/D WARNING TIME	0	0
S	A8AALX	IDLE S/D IF WARM-UP TEMP	38C DEG (100F), WARM UP TEMP DELAY	0	0
S	A4AAEX	IDLE S/D WARM-UP TIMER	5 MIN. WARM UP TIME DELAY	0	0
S	A6AABX	IDLE S/D IF PTO ACTIVE	ENGINE IDLE SHUTDOWN TIME OVERRIDDEN IF PTO ACTIVE	0	0
S	B0AAAX	IDLE SHUTDOWN IF POWER > LIMIT	ENG IDLE SHUTDOWN TIME OVERRIDDEN IF TORQUE > THAN LIMIT	0	0
S	M4CB1X	IDLE S/D OVERRIDE %ENGINE LOAD	IDLE SHUTDOWN OVERRIDE UPTO 20% ENGINE LOAD THRESHOLD	0	0
S	D2AAFV	AMBIENT TEMP MIN TRESHOLD	AMBIENT TEMP MIN TRESHOLD, 16 DEG C, (60 DEG F)	0	0
S	D3AAEX	AMBIENT TEMP MAX TRESHOLD	AMBIENT TEMP MAX TRESHOLD, 27 DEG C, (80 DEG F)	0	0

				WEIGHT (LB)	
				FRONT	REAR
ENGINE ELECTRONICS		DESCRIPTION			
S	B3ABAX	EL HD THROTTLE,MAX ROAD SPEED	ELECTRONIC HAND THROTTLE, MAX ROAD SPEED, 16 KMH (10 MPH)	0	0
S	B6ABAX	EL HAND THROTTLE,MAX ENG SPEED	ELECTRONIC HAND THROTTLE, MAX ENGINE SPEED, 1000 RPM	0	0
S	B4ADAX	EL HAND THROTTLE,MIN ENG SPEED	ELECTRONIC HAND THROTTLE, MIN ENGINE SPEED, 700 RPM	0	0
S	B9AABX	EL HD THROTTLE,SPEED RAMP RATE	ELECTRONIC HAND THROTTLE, SPEED RAMP RATE, 100 RPM/SEC	0	0

				WEIGHT (LB)	
				FRONT	REAR
TRANSMISSION ELECTRONICS		DESCRIPTION			
	7790M9	TRANSMISSION ELECTRONICS PACKAGE	DUMP/VOCATIONAL(223) - REQUIRES SERVICE BRAKE TO ENGAGE GEAR	0	0
S	MAV01V	TRANSMISSION ELECTRONIC SHIFTING PROPERTIES	W/O ALLISON FUELSense 2.0 PROGRAMMING	0	0

				WEIGHT (LB)	
				FRONT	REAR
VEHICLE ELECTRONICS		DESCRIPTION			
S	JDXA1X	CRUISE CONTROL	CRUISE CONTROL	0	0
S	JFXLLX	CRUISE CONTROL, MAX SPEED	MAX CRUISE, 105 KPH (65 MPH)	0	0
S	E3AACX	CRUISE CONTROL MIN SPEED	MIN CRUISE, 32 KPH (20 MPH)	0	0
S	E5AACX	ENG BRK ENGAGE IN CRUISE	ENG BRK ENGAGE IN CRUISE, 3 MPH, ABOVE SET SPEED	0	0
S	Y3CC1X	PEDAL RSL SETTING	101 KM/H PEDAL ROAD SPEED LIMITER (63MPH)	0	0
S	JCXE6X	ROAD SPEED LIMITER SETTING	105 KM/H ROAD SPEED LIMITER(65 MPH)	0	0
S	L2CA1X	PDLO ENGAGED VLS	POWER DIVIDER LOCK OUT (PDLO) ROAD SPEED LIMIT 8KMH (5MPH)	0	0
S	W5BA1X	MAXIMUM ENG SPEED AT 0 MPH	1000 MAXIMUM ENGINE SPEED AT 0 MPH	0	0
S	A4BAAX	DETECTION SPEED SENSR TMRNG	DETECTION OF SPEED SENSOR TAMPERING, ENABLE	0	0
S	8RXAEX	ENG TORQUE LIMIT,SPEED SENSOR	ENG TORQUE LIMITED TO 50%, IF SPEED SENSOR TAMPER DETECTED	0	0
S	X3CB1X	DRIVER ID FUNCTION	DRIVER ID FUNCTION, DISABLED	0	0
S	0PAZ1X	DR PERFORMANCE PARAMETERS	WITHOUT DRIVER PERFORMANCE PARAMETERS	0	0
S	G5AAHX	ENGINE OVERSPEED,ALL COND, LOG	ENGINE OVERSPEED, ALL CONDITIONS, TIME LOG IF ABOVE 2200 RPM	0	0
S	G2AAGX	ENGINE OVERSPEED,FUELED, LOG	ENGINE OVERSPEED, FUELED, TIME LOG IF ABOVE 2100 RPM	0	0
S	G4AAUX	VEHICLE OVERSPEED,ALL COND,LOG	VEHICLE OVERSPEED,ALL COND, TIME LOG IF ABOVE 75MPH (121KMH)	0	0
S	G3AAPX	VEHICLE OVERSPEED, FUELED, LOG	VEHICLE OVERSPEED, FUELED, TIME LOG IF ABOVE 70MPH (113KMH)	0	0
S	G1AABX	ENGINE IDLE DELAY TO LOG	ENGINE IDLE DELAY TO START LOG, 2 MIN	0	0
S	W9A01X	PERIODIC TRIP LOG DAY OF MONTH	PERIODIC TRIP LOG, DAY 1 OF THE MONTH	0	0

				WEIGHT (LB)	
				FRONT	REAR
PTO ELECTRONICS		DESCRIPTION			
S	F3AAEX	PTO1 SINGLE SPEED CONTROL RPM.	PTO 1ST, SINGLE SPEED SETTING, 1000 RPM	0	0
S	F5AABX	PTO 1ST, MAX ROAD SPEED	1ST PTO, MAX ROAD SPEED, 10 MPH (16 KPH)	0	0
S	F6AABX	PTO 1ST, SPEED RAMP RATE	PTO 1ST, SPEED RAMP RATE 100 RPM/SEC	0	0
S	F7AAPX	PTO 1ST, MAX ENGINE SPEED	PTO 1ST, MAX ENGINE SPEED, 2100 RPM	0	0
S	F8AAGX	PTO 1ST, ROAD SPEED LIMIT	PTO 1ST, ROAD SPEED LIMIT, 97 KMH (60 MPH)	0	0
S	F9AABX	PTO 1ST, MINIMUM ENGINE SPEED	PTO 1ST, MINIMUM ENGINE SPEED, 600 RPM	0	0

				WEIGHT (LB)	
				FRONT	REAR
PTO ELECTRONICS		DESCRIPTION			
S	H6AAEX	PTO 2ND, SINGLE SPEED SETTING	PTO2 SINGLE SPEED SETTING, 1000 RPM	0	0
S	H0AABX	PTO 2ND, MAX ROAD SPEED	2ND PTO, MAX ROAD SPEED, 10 MPH (16 KPH)	0	0
S	G9AABX	PTO 2ND, SPEED RAMP RATE	PTO 2ND, SPEED RAMP RATE 100 RPM/SEC	0	0
S	H7AANX	PTO 2ND, MAX ENGINE SPEED	PTO 2ND, MAX ENGINE SPEED, 2100 RPM	0	0
S	H5AAGX	PTO 2ND, ROAD SPEED LIMIT	PTO 2ND, ROAD SPEED LIMIT, 97 KMH (60 MPH)	0	0
S	G8AABX	PTO 2ND, MINIMUM ENGINE SPEED	PTO 2ND, MINIMUM ENGINE SPEED, 600 RPM	0	0

				WEIGHT (LB)	
				FRONT	REAR
PAINT		DESCRIPTION			
S	950AD0	PAINT DESIGN	SINGLE COLOR	0	0
S	924014	PAINT TYPE	SOLID PAINT	0	0
	9443GU	PAINT COLOR - FIRST COLOR	OMAHA ORANGE; 31	0	0
S	945998	PAINT COLOR - SECOND COLOR	NO SECOND TRUCK COLOR PROVIDED; NO COLOR	0	0
S	946998	PAINT COLOR - THIRD COLOR	NO THIRD TRUCK COLOR PROVIDED, NO COLOR	0	0
S	996AA3	PAINT - CAB PAINT SYSTEM	PAINT - CAB, URETHANE CLEAR COAT	0	0
S	MPB944	CAB COLOR	SAME AS FIRST COLOR - CAB	0	0
S	MPD944	HOOD COLOR	SAME AS FIRST COLOR - HOOD	0	0
S	MPC998	SLEEPER ROOF COLOR	WITHOUT SLEEPER ROOF COLOR	0	0
S	MPA998	ROOF FAIRING COLOR	WITHOUT ROOF FAIRING	0	0
S	951AA6	CHASSIS RUNNING GEAR	MACK BLACK (URETHANE)	0	0
S	958018	BUMPER	PAINT BUMPER SAME COLOR AS CHASSIS RUNNING GEAR	0	0
S	959019	FUEL TANK - ***NO INVENTED VARIANTS ALLOWED in the FUEL TANK PAINT FAMILY***	W/O OPTIONAL FUEL TANK PAINT	0	0
	07XZ1X	FRONT WHEEL PAINT	WITHOUT FRONT WHEEL PAINT	0	0
	08XZ1X	DRIVE WHEEL PAINT	WITHOUT SPECIAL PRE-FINISHED OPTION	0	0
S	954AA1	PAINTED DISC WHEELS, FRONT	WITHOUT PAINT	0	0
S	955AA1	PAINTED DISC WHEELS, REAR	WITHOUT PAINT	0	0
S	962032	HUBS & DRUMS-FRONT	SAME AS CHASSIS RUNNING GEAR	0	0
S	963033	HUBS & DRUMS-REAR	SAME AS CHASSIS RUNNING GEAR	0	0

				WEIGHT (LB)	
				FRONT	REAR
CALCULATED CODES - KAX		DESCRIPTION			
S	9JXA1X	PROPCALC SELECTION	YES, THE ORDER MUST BE CALCULATED	0	0
	D5EA1X	AUTO ROUTING & CLIPPING, CENTER	AUTOMATIC ROUTING & CLIPPING PLACEMENT, CENTER SECTION	0	0

				WEIGHT (LB)	
				FRONT	REAR
BASE WARRANTY & PURCHASED COVERAGES		DESCRIPTION			
S	898003	VEHICLE WARRANTY TYPE	HEAVY DUTY WARRANTY CLASSIFICATION	0	0
S	M50030	BASIC CHASSIS COVERAGE	HEAVY DUTY STANDARD BASE COVERAGE 12 MONTHS/100,000 MILES (161,000 KM)	0	0
S	M51021	ENGINE WARRANTY	MACK MP7/MP8 BASE ENGINE COVERAGE 24 MONTHS / 250,000 MILES (402,000KM)	0	0
S	M52022	EMISSION COMPONENT COVERAGE	US and CANADA EQUIPPED VEHICLE EMISSION COMPONENTS COVERAGE 60 MONTHS/100,000 MILES (161,000 KM)	0	0

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20190812	KRIE2019000130D862	2/24/2020	9 of 22	VILLAGE OF WINDSOR	KRIETE TRUCK CENTER MADISON,

BASE WARRANTY & PURCHASED COVERAGES		DESCRIPTION	WEIGHT (LB)	
			FRONT	REAR
	M540B4	TRANSMISSION WARRANTY	0	0
S	M55035	CARRIER & AXLE HOUSING WARRANTY	0	0
S	M56026	AIR CONDITIONING WARRANTY	0	0
S	M57027	CHASSIS TOWING WARRANTY	0	0
S	M58028	ENGINE TOWING WARRANTY	0	0
S	M690F9	GUARDDOG CONNECT BUNDLE	0	0
S	M67017	PREMIUM MAINTENANCE - CHASSIS LUBE AND INSPECTION	0	0
<b>FRONT / REAR AXLE WEIGHTS (LB)</b>			<b>9849</b>	<b>6859</b>
<b>TOTAL WEIGHT (LB)</b>			<b>16707</b>	

Inputs Required	Inputs	UOM
Vehicle Type	Aero Muscle Hood - Roof Fairing (0 60)	MPH
Performance Level	>67 MPH / >108KPH	MPH
Frontal Area	110.0	FEET²
Accessory Power Loss	11.0	HP

**VEHICLE SPECIFICATION SUMMARY**

Model	GRANITE 64BR	
Gross Combination Weight	TRUCK ONLY - NO TRAILER TOWING PROVISIONS PROVIDED	
Vehicle Application	ON-OFF HIGHWAY, STARTING GRADES<18%	
Body/Trailer Type		
Loading/Unloading Surface Type	CONCRETE LOADING AND / OR UNLOADING SURFACE	
Engine	MP7-355A MACK 355HP @ 1500-1800 RPM (PEAK) 2100 RPM (GOV) 1260 LB-FT, US'17	
Peak Power	HP	355.0 @ 1550 - 1800
Peak Torque	Newton Meters	1695 @ 1000
Transmission	3000 RDS 6-SP ALLISON GEN5 W/PROGNOSTICS, WITH PTO PROVISION	
Rear Axle	40000# (18100kg) MACK S402R CAST DUCTILE IRON HOUSING	
Rear Axle Ratio	3.98	
Rear Tire	11R22.5 G BRIDGESTONE M713 ECOPIA (23360 lbs) (DRIVE ONLY) (recommended replacement for 901 1343)	
Tire Revolutions per Mile	Mile	499
Total Reduction	2.59	

**CALCULATED PERFORMANCE SUMMARY**

	Speed	UOM	RPM	Desired / Recommended Value	Status
Engine RPM @ 65 MPH	65.2	MPH	1403		
Engine RPM @ Desired Cruise Speed	65.2	MPH	1403	1275 - 1375 rpm	
Engine RPM @ Road Speed Limit (RSL)	65.2	MPH	1403	< 2100 rpm	
Sweet Spot Cruise Speed Range In Top Gear	59.3 - 63.9	MPH	1275 - 1375		
Top Gear Speed Range	46.5 - 97.6	MPH	1000 - 2100	65.2 MPH	
Minimum Practical Speed In Reverse	3.6	MPH	600		
Maximum Practical Speed In Reverse	12.6	MPH	2100		
Minimum Practical Speed In Lowest Forward Gear	2.6	MPH	600		
Maximum Practical Speed In Lowest Forward Gear	9.2	MPH	2100		
	Concrete / Asphalt		UOM		
Wheel HP Required at (65 MPH) Cruise Speed	189.7 / 204.2		HP		
Wheel HP Required at (75 MPH) Road Speed Limit	189.7 / 204.2		HP		
Wheel HP Required at (92 MPH) Top Speed	514.6 / 539.3		HP		

(cont.)



**VEHICLE SPECIFICATION SUMMARY**

Gradeability		Recommended Min. Gradeability in Top Gear
Maximum in Top Gear (Concrete)	1.2%	1.9%
Maximum in Top Gear (Asphalt)	1.1%	1.9%
Startability		Recommended Min. Startability
In Lowest Gear	15.8%	18.0%
Loading/Unloading Surface Type	CONCRETE LOADING AND / OR UNLOADING SURFACE	
		Recommended Speed on 1.5% Grade
Speed on a 1.5% Grade (Concrete)	50.4 MPH @1250 rpm in 6th gear	>67 MPH PL5
Suggested Value for Gear Down Vehicle Speed	RSL - 10	
Driveability Rating		Status
100% Max Power available after shift		CAUTION!
>95% Very Good >90% Acceptable		
Performance Level	Recommended Speed on 1.5% Grade	Min. Gradeability In Top Gear
PL5 - High Performance	>67 MPH	1.9%
PL4 - Performance	61 - 67 MPH	1.7%
PL3 - Economy	54 - 60 MPH	1.5%
PL2 - Fleet / Construction	47 - 53 MPH	1.3%
PL1 - Heavy Haul	40 - 46 MPH	1.1%

**PRICELIST DATE**

**QUOTATION**

**DATE**

**PAGE**

**CUSTOMER NAME**

**DEALER NAME**

20190812

KRIE2019000130D862

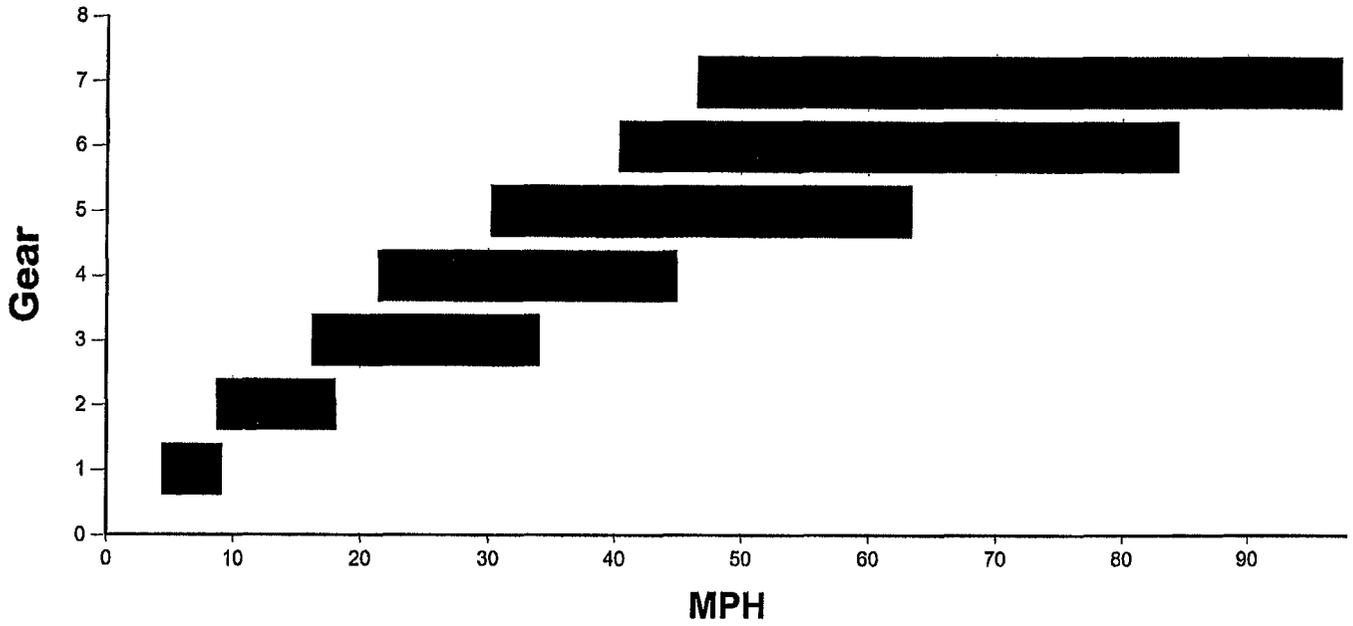
2/24/2020

12 of 22

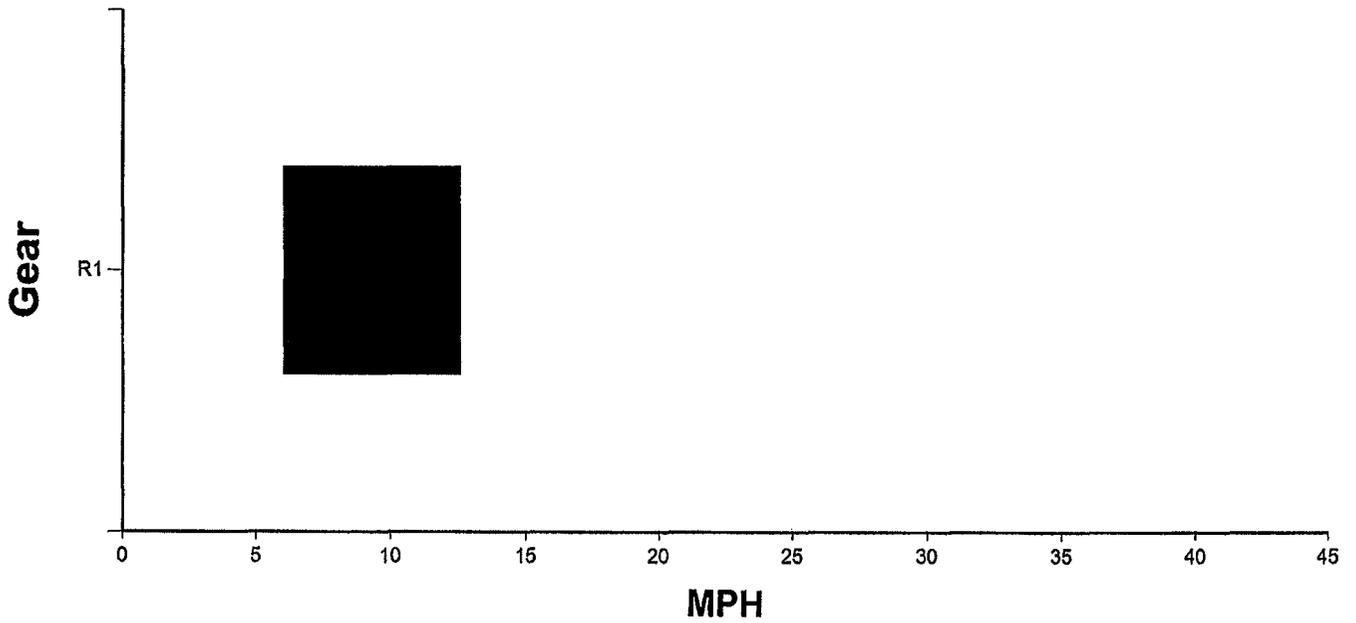
VILLAGE OF WINDSOR

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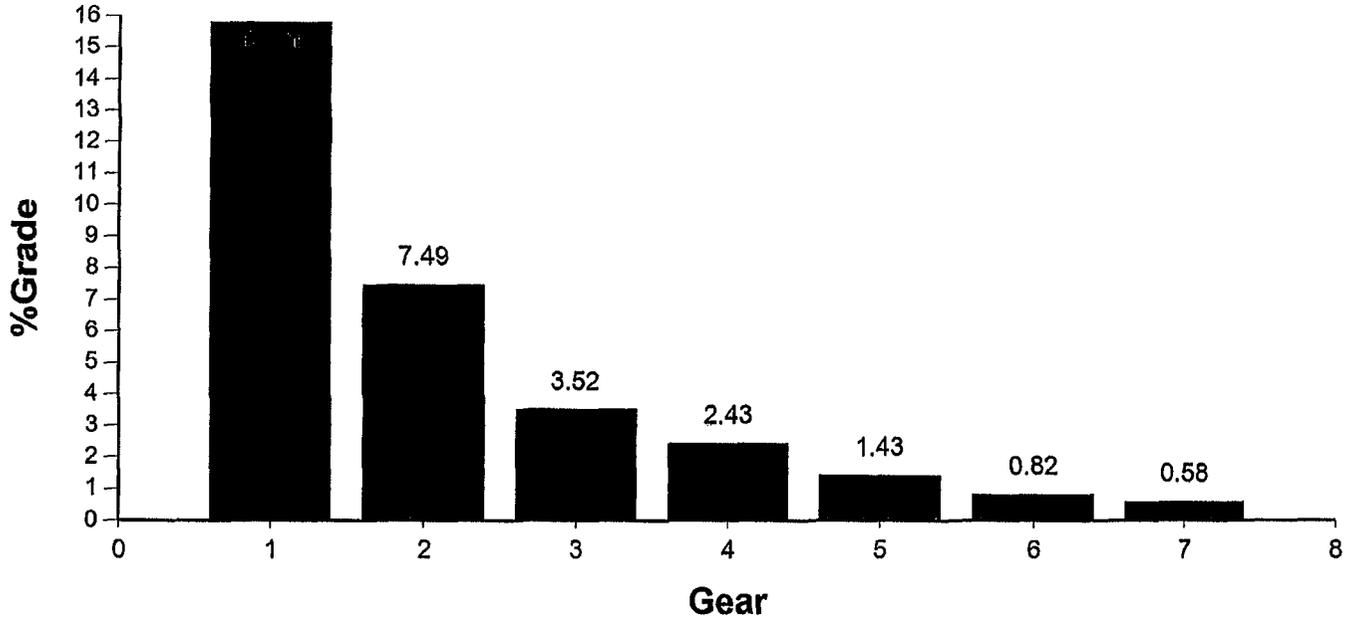
**Forward Geared Speed**



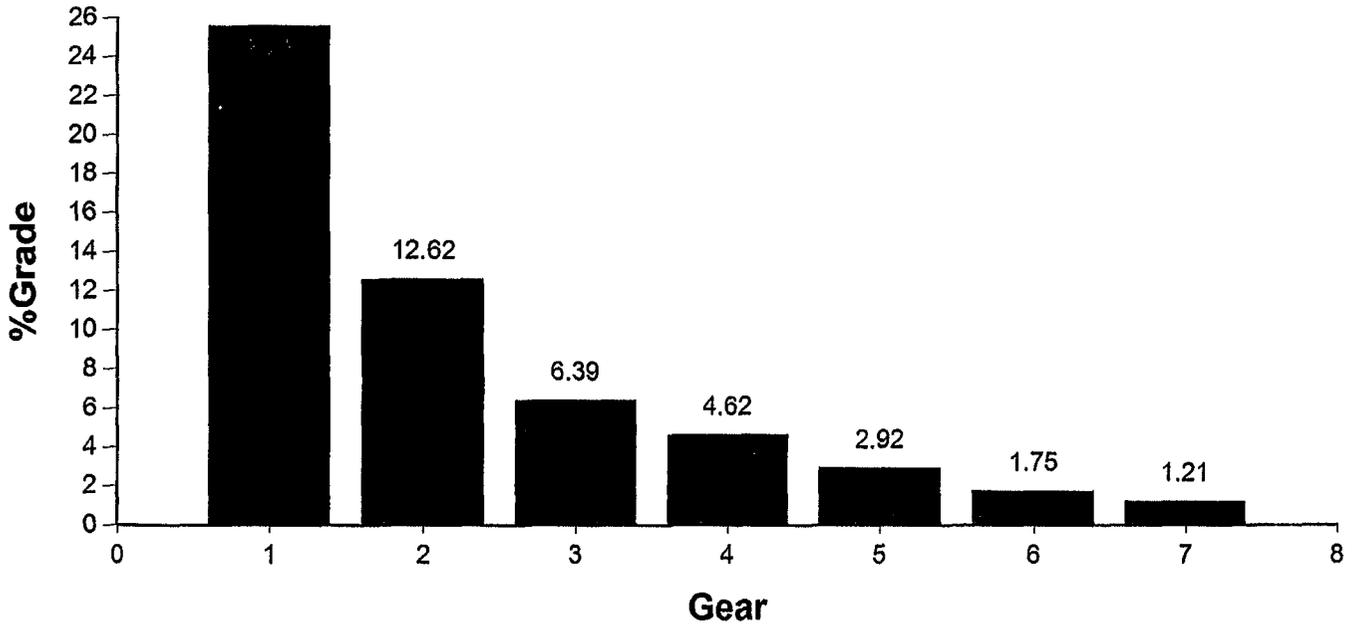
**Reverse Geared Speed**



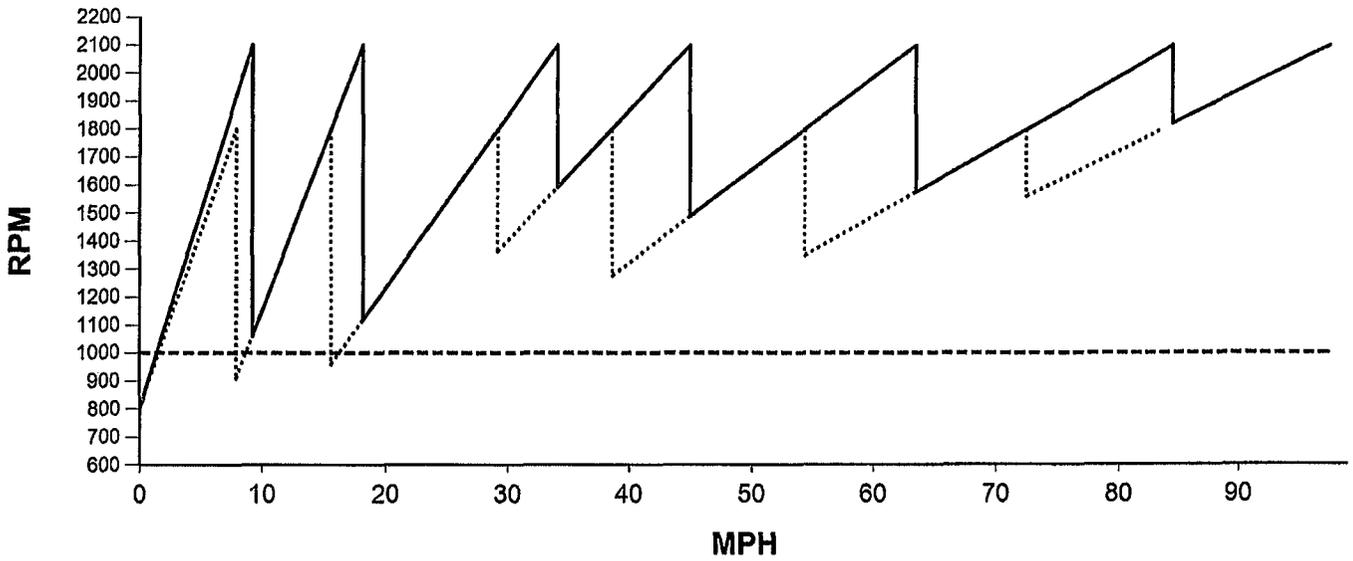
**Startability**



**Gradeability at Max Torque**

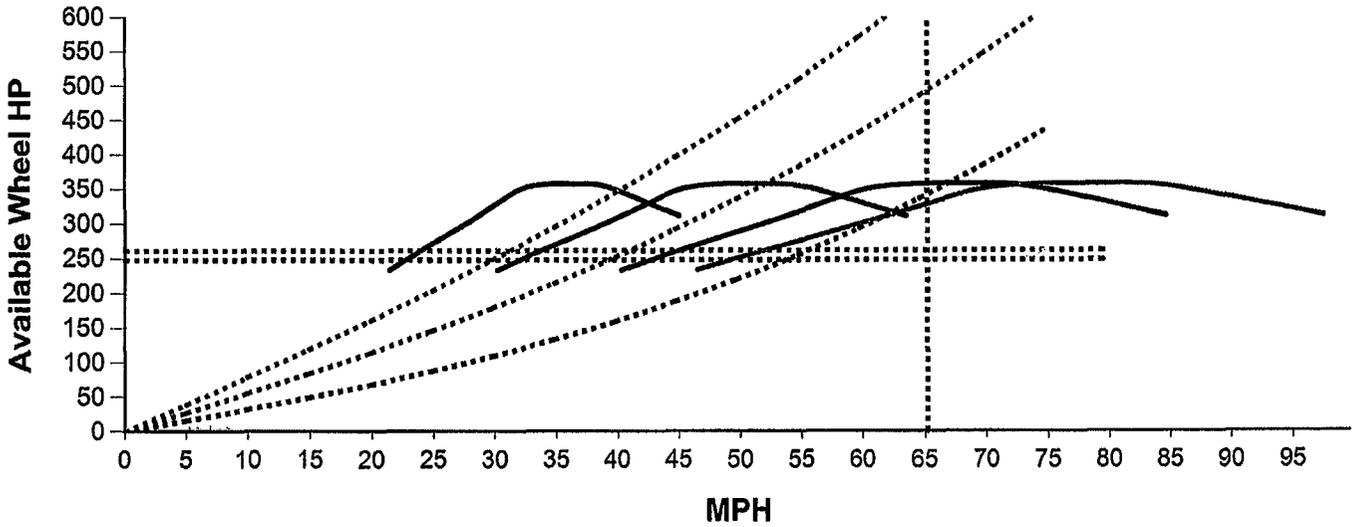


**Shift Chart**



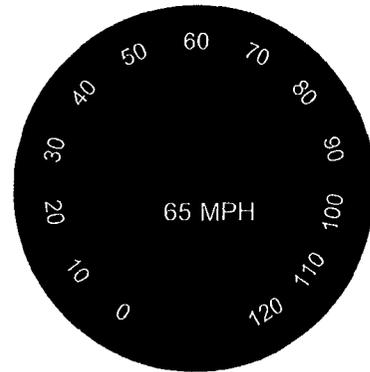
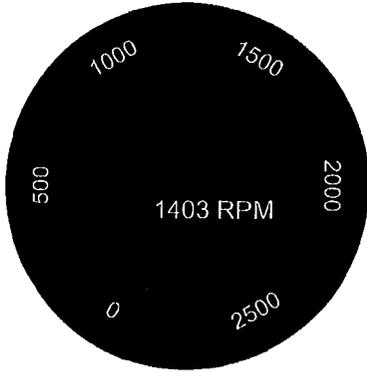
— 2100 RPM    ..... 1800 RPM    - - - Peak Torque

**Horsepower VS. Speed**

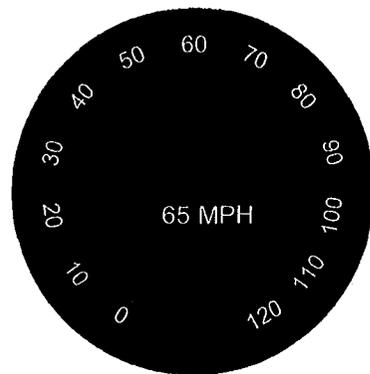
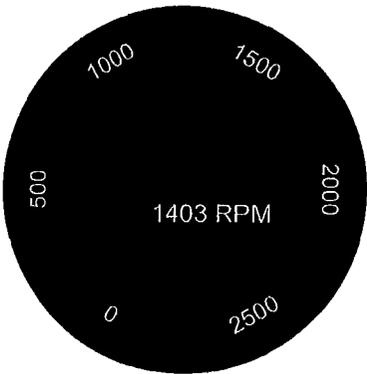


— 9th Gear	— 11th Gear	0% Grade	..... 3 0% Grade	..... Cruise Speed	..... 90% Power	..... 95% Power
— 10th Gear	— 12th Gear	..... 1 5% Grade	..... 4 5% Grade			

RPM at 65 MPH



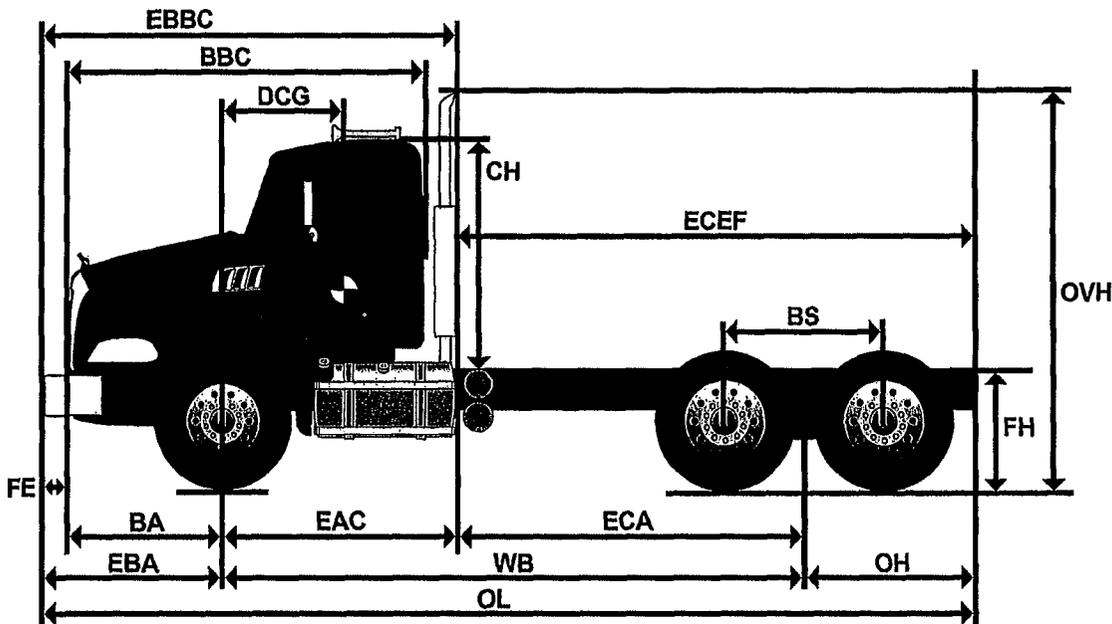
RPM at Cruise Speed



	MPH	RPM
Minimum of Engine Range	46.5	1000.00
Minimum of Economy Range	59.3	1275.00
Cruise Speed	65.2	1403.45
Maximum of Economy Range	63.9	1375.00
Road Speed Limit	65.2	1403.45
Maximum of Engine Range	97.6	2100.00

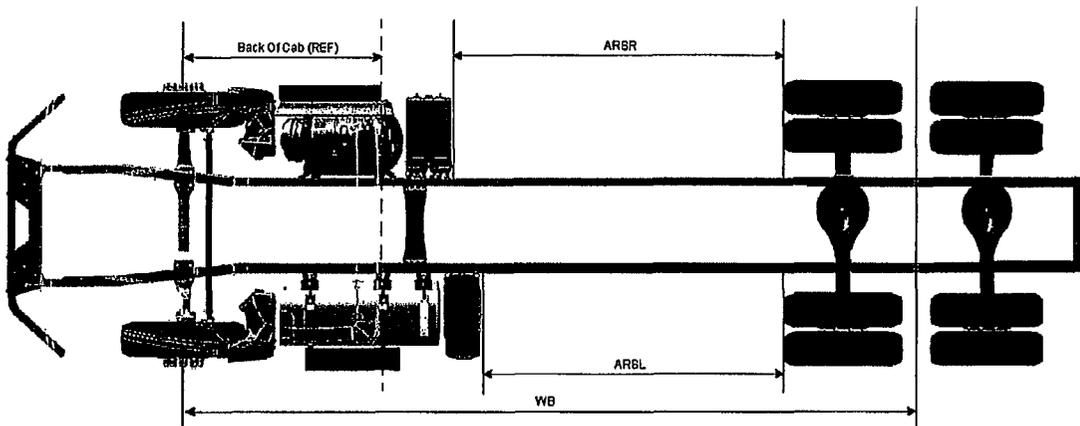
**VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY**

Description	Sales Code	Dwg Ref	Length	UOM
Front Frame Extension	N/A	FE	6.1	INCHES
Bumper to Front Axle	N/A	BA	51.1	INCHES
Wheelbase	N/A	WB	186.4	INCHES
Rear Overhang	N/A	OH	67.3	INCHES
Overall Length	N/A	OL	304.8	INCHES
Bumper to Back of Cab	N/A	BBC	116.5	INCHES
Eff. Bumper to Back of Cab	N/A	EBBC	128.0	INCHES
Eff. Cab to Rear Axle	N/A	ECA	109.4	INCHES
Eff. Front Axle to Back of Cab	N/A	EAC	77.0	INCHES
Eff. Cab to End of Frame	N/A	ECEF	176.8	INCHES
Unladen 5th Wheel Height	E5BZ1X	5W	0.0	INCHES
Unladen Frame Height	N/A	FH	45.0	INCHES
Cab Height	N/A	CH	70.9	INCHES
Overall Height	N/A	OVH	143.0	INCHES
Driver CG	N/A	DCG	47.2	INCHES
54" AXLE SPACING (BOGIE WHEELBASE)	GWXDGX	BS	53.9	INCHES
Second Front Axle Spacing	RHXZ1X	SFAS	0.0	INCHES



**VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY**

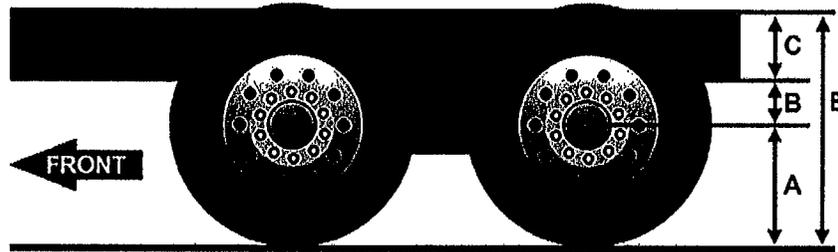
Description	Sales Code	Dwg Ref	Left Value(in)	Right Value(in)
Wheelbase	N/A	WB	186.4	186.4
Available Rail Space Right	N/A	ARSR	N/A	47.2
Available Rail Space Left	N/A	ARSL	34.7	N/A
Eff. Front Axle to Back of Cab	N/A	REF	77.0	77.0
Front Axle To Fender	CDX23X	N/A	27.0	27.0
Cleartech One Unit	DPF04F	N/A	0.0	48.0
Battery Box	393AB0	N/A	0.0	15.0
88 GALLON (335 L) 22" ALUMINUM, SLEEVED D-SHAPED / W/O RH FUEL TANK	288AF5 / 290AA1	N/A	54.0	0.0
Ad-Blue Tank	DF1001	N/A	7.5	0.0
Outboard Air Reservoirs Behind Fuel Tank	N/A	N/A	14.0	0.0
Drive Tire Radius	901601	N/A	22.3	22.3



*Top View image is intended for illustration purposes only and is not presented to scale. Wheelbase, Axle Spacing and After frame are not shown as specified, but are a representation. Customer Adaptation (CA) options and relocated components are not represented in these images. Most CA options impact the variation of the image, thus an image may not populate. Calculations are approximate to a tolerance of ± 4 inches due to component mounting variation. Certain chassis component options are NOT represented in the Top View image, such as, but not exclusive to, Front Frame Extensions, Fuel Water Separators, Air Dryers, PTOs, Fifth Wheels, Chassis Fairings, Toolboxes, Trailer Connections. For further information on these items and their respective locations on your specification, please refer to the data sheets associated with those items in the configurator.*

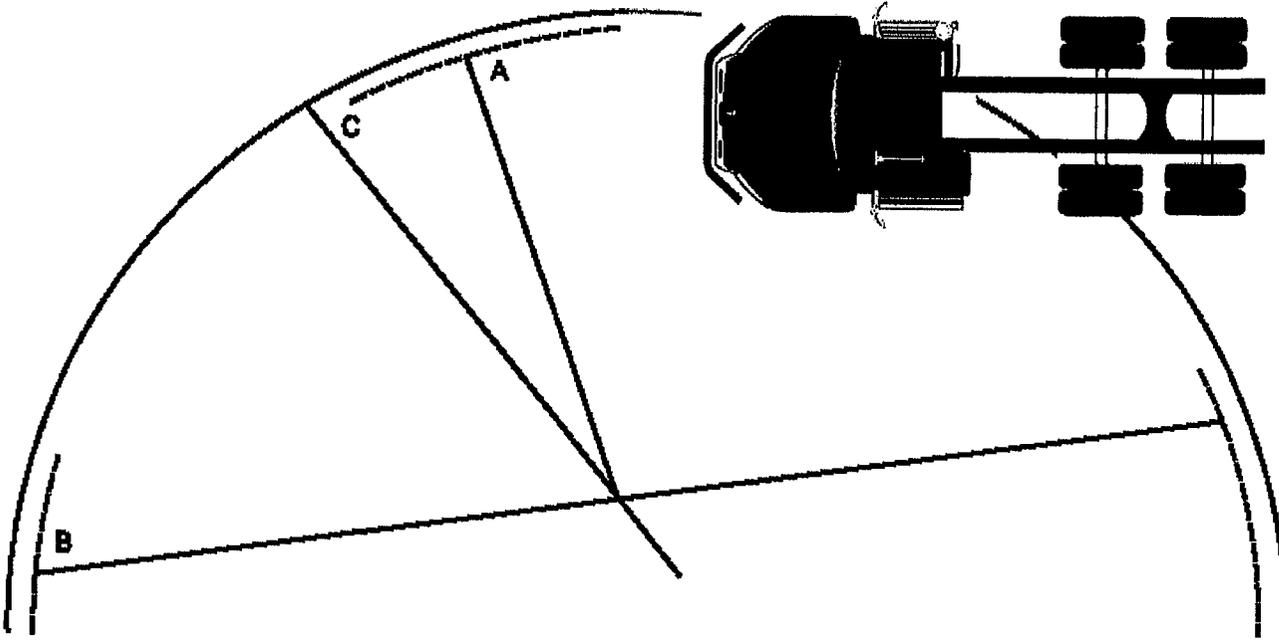
**VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY**

Description	Sales Code	Dwg Ref	Rear		UOM
			Unladen	Laden	
Requested Fifth Wheel Height	E6BZ1X		0.0	0.0	INCHES
Tire Radius	901601	A	22.3	19.4	INCHES
Suspension Height	186AC6	B	10.9	10.0	INCHES
Frame Depth	YBXGAX	C	11.8	11.8	INCHES
Closest Available Fifth Wheel Leg Height	N/A	D	0.0	0.0	INCHES
Total Height	N/A	E	45.0	41.2	INCHES



**VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY**

Description	Sales Code	Dwg Ref	Length	UOM
SAE Turning Radius	N/A	A*	27.5	FEET
Adjusted Turning Radius	N/A	A	31.3	FEET
Curb-to-Curb Diameter	N/A	B	63.6	FEET
Wall-to-Wall Diameter	N/A	C	69.0	FEET



Tests have shown that the true location of the turning center is further to the rear than midway between drive axle sets (where applicable)

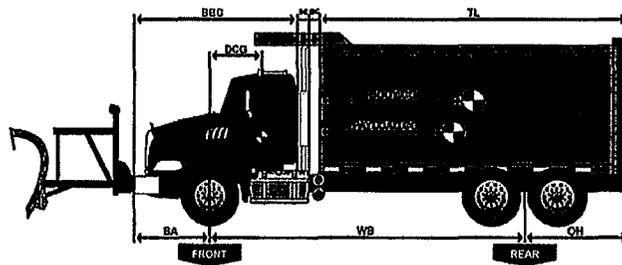
The actual location of the turning center depends on:

- Whether the drive tire equipment is single or dual.
- The overall load distribution for the vehicle (front/rear, between drive axles) in a loaded condition
- Manufacturing tolerances within the steering components

Inputs Required	Inputs	UOM
Driver Weight	201	LB
Total Body Length	16.4	FEET
Body Tare Weight	3501	LB
Additional Clearance from Back of Exhaust to Front of Body	6.0	INCHES
Front of Body to Body CG	96.0	INCHES

**VEHICLE SPECIFICATION SUMMARY**

Description	Description	Dwg Ref	Length	UOM
Bumper to Front Axle	N/A	BA	51.1	INCHES
Wheelbase	N/A	WB	186.4	INCHES
Rear Overhang	N/A	OH	67.3	INCHES
Bumper to Back of Cab	N/A	BBC	116.5	INCHES
BOC Exhaust Space	130AB6	N/A	11.5	INCHES
Driver CG from Front Axle	N/A	DCG	47.2	INCHES
First Pusher Axle Spacing			0.0	INCHES



**CALCULATED PERFORMANCE SUMMARY**

Tare Weights	Front Axle	Rear Axle (s)	Total	UOM
Chassis	9849	6859	16707	LB
Driver	150	51	201	LB
Fuel	366	237	602	LB
Body/Trailer	140	3362	3501	LB
<b>Total Tare</b>	<b>10503</b>	<b>10508</b>	<b>21011</b>	<b>LB</b>
Payloads				
First Body Payload	1477	35702	37179	LB
Total - Lift Axles Down	11979	46210	58189	LB
GAWR	18189	40000	58189	LB

**VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY**

Sub-Category	Sales Code	Sales Code Description	Value	UOM
Front Axle	240AA3	20000# (9100 KG) MACK FXL20 WIDE PIVOT CENTER STRAIGHT SPINDLE/UNITIZED BEARINGS	20000	LB
Front Suspension	244AB4	MACK TAPERLEAF 20000# (9100 KG) GROUND LOAD RATING, NO BIAS	20000	LB
Front Tires	900AW0	315/80R22.5 L BRIDGESTONE M843 (MAX SPEED 65MPH) (18180 lbs)	18189	LB
Front Wheels	5310L1	22 5x9.00 ALCOA ULTRA ONE ALUM DISC 10-HP, 11.25" BC, 5.96"INSET	20001	LB
		Front GAWR	18189	LB
Rear Axle	268AB4	40000# (18100kg) MACK S402R CAST DUCTILE IRON HOUSING	40000	LB
Rear Suspension	186AC6	MACK mRIDE 40 PARABOLIC 2-LEAF, 40000# NORMAL STIFFNESS	40000	LB
Rear Tires	901601	11R22.5 G BRIDGESTONE M713 ECOPIA (23360 lbs) (DRIVE ONLY) (recommended replacement for 901 1343)	46738	LB
Rear Wheels	3460B6	22.5x8.25 ALCOA ULTRA ONE ALUM DISC 10-HP, 11.25"BC, 6.60"OUTSET #ULTRAX	59199	LB
		Rear GAWR	40000	LB
		Truck GVWR	58189	LB
		Gross Combination Weight Rating	0	LB

February 25, 2020

Mr. Davis Clark  
Village Of Windsor  
4084 Mueller Rd  
Deforest, WI 53532

Dear Davis,

Thank you for the opportunity to quote the Village of Windsor on a 2021 Kenworth T470 FEPTO Tandem Axle Plow Truck Chassis. I feel this truck will be a welcomed addition to your fleet! Below you will find a price quote for the 2021 Kenworth T470 FEPTO Chassis. Pricing does not include FET or Wisconsin sales tax (If applicable).

- **2021 Kenworth T470 FEPTO - \$106,901.00**

The chassis will come standard with the following warranties. Kenworth Base Vehicle Warranty - 1 year/100,000 miles. Cummins Engine/Aftertreatment Warranty - 2 year/250,000 miles. Allison Transmission Warranty - 3 year/Unlimited miles. Optional Extended Warranty pricing is below. This will be an additional cost added to the price of the truck if selected.

Optional Warranty Pricing:

- **Engine PX9 - 5 year/250,000 miles - \$3,800.00**
- **Aftertreatment System - 5 year/250,000 miles - \$1,050.00**
- **Allison Transmission - 5 year/Unlimited miles - \$478.00**

I truly believe that the quality and durability of the Kenworth product will far surpass the competition. Kenworth has proven time and time again that it is "The Worlds Best" with superior construction and product longevity. Rugged construction paired with a very comfortable drivers cabin make the Kenworth a choice for many municipalities looking for a superior return on their investment. Again, thank you for the opportunity to quote the Village of Windsor on a 2021 Kenworth.

Please do not hesitate to contact me with questions, thoughts or concerns.

Sincerely,

WISCONSIN KENWORTH

  
Kevin A Selchert  
Cell: 608-640-9726



CSM - WISCONSIN KENWORTH - WINDSOR (M450)  
 4539 KENWORTH DRIVE  
 WINDSOR, Wisconsin 53598

VILLAGE OF WINDSOR  
 4084 MUELLER ROAD  
 DEFOREST, Wisconsin 53532  
 United States of America

Kevin Selchert  
 Cell Phone:  
 Office Phone: 608-846-9725  
 Email: kevin.selchert@csmtruck.com

Davis Clark  
 Cell Phone: 608-235-1196  
 Email: davis@windsorwl.gov

## Vehicle Summary

	Unit		Chassis	
Model	T400 Series Conventional.	Fr Axle Load (lbs):		20000
Type:	FULL TRUCK	Rr Axle Load (lbs):		40000
Description 1:	Tandem Axle Plow Truck	G.C.W. (lbs):		60000
Description 2:				
Intended Serv.:	<b>Application</b> Snowplow: Vehicles which are configured	Road Conditions:	Class A (Highway)	90
Commodity:	Gravel/crushed rock/sand.	Class B (Hwy/Mtn)		10
Type:	<b>Body</b> Other - Narrative Required	Class C (Off-Hwy)		0
Length (ft):	12	Class D (Off-Road)		0
Height (ft):	13	Maximum Grade:		6
Max Laden Weight (lbs):	4000	Wheelbase (in):		160
		Overhang (in):		54
		Fr Axle to BOC (in):		67.4
		Cab to Axle (in):		92.6
	<b>Trailer</b>	Cab to EOF (in):		146.6
No. of Trailer Axles:	0	Overall Comb. Length (in):		286.5
Type				
Length (ft):	0	<b>Special Req.</b>		
Height (ft):	0	U.S. Domestic registry, 50-state.		
Kingpin Inset (in)	0			
Corner Radius (in)	0			
	<b>Restrictions</b>			
Length (ft)	75			
Width (in):	102			
Height (ft):	13.5			

Approved by: \_\_\_\_\_

Date: \_\_\_\_\_

Note: All sales are F.O.B. designated plant of manufacture.



Sales Code	Std/ Opt	Description
<b>Model</b>		
0000410	S	<b>T400 Series Conventional.</b>
0070072	O	<b>T470 6x4 Class 8</b>
0080050	O	<b>CARB Idle Emissions Reduction Feature for PX-7 and PX-9</b>
0090064	O	<b>T470 6x4 Class 8</b>
<b>Engine &amp; Equipment</b>		
0129569	O	<b>PACCAR PX-9 370 2017 370@2000 365@2100 1250@1400</b> Includes turbo exhaust brake, no code is used. Diagnostic Plug for data link, Oil Cooler, Aluminum Flywheel Housing. N09260 P14 64....Max Vehicle Speed in Top Gea N09440 P11 NO....Engine Protection Shtdwn N09460 P06 NO....Gear Down Protection N09300 P19 64....Max Cruise Control Speed N09720 P230 YES...Enable Hot Ambient Automatic N09500 P02 NO....Cruise Control Auto Resume N09520 P04 NO....Auto Engine Brake in Cruise N09480 P26 1400..Max PTO Speed N09580 P32 5.....Idle Shtdwn Time N09680 P33 NO....Idle Shtdwn Override N09560 P520 NO....Enable Idle Shutdown Park Br N09600 P233 YES...Enable Impending Shutdown Wa N09780 P47 80....High Ambient Temperature Thr N09740 P46 40....Low Ambient Temperature Thre N09200 N205 120...Standard Maximum Speed Limit N09620 P234 60....Timer For Impending Shutdown N09360 N203 252...Reserve Speed Function Reset N09640 P516 35....Engine Load Threshold N09400 N206 10....Maximum Active Distance (N20 N09420 N201 0.....Reserve Speed Limit Offset ( N09760 P56 60....Intermediate Ambient Tempera N09380 N202 0.....Maximum Cycle Distance (N202 N09220 N207 0.....Expiration Distance (N207) N09540 N209 0.....Expiration Distance (N209)
1000151	S	<b>PremierSpec</b>
1000684		<b>Effective VSL Setting NA</b>
1000858	O	<b>Engine Idle Shutdown Timer Disabled</b>
1000891		<b>Eff EIST NA Expiration Miles</b>
1002060	S	<b>Air compressor: Cummins 18.7 CFM For Cummins And PACCAR PX engines.</b>
1051092	S	<b>Engine mount Powercore air cleaner.</b>

Price Level: January 1, 2020  
 Deal Tandem Axle Plow Truck  
 Printed On: 2/24/2020 2:10:13 PM

Date February 24, 2020  
 Quote Number. QUO-521429-P2C0B3



Sales Code	Std/ Opt	Description
		w/constant torque SS clamps, pop-up air restriction indicator. Pop-up indicator is standard.
1105230	O	<b>Fan Hub: Horton 2-Speed for ISL9, ISL-G, PX-8 or PX-9</b>
1121200	O	<b>Cooling module: 1000 square inches</b> T170/T270/T370/T470. Includes metal surge tank on T170/T270/T370.
1160105	O	<b>Radiator winterfront.</b>
1160205	O	<b>Bug screen: Front of grille on C500, T800, T880, and W900.</b> Behind grille on T680 and T300 (Medium Duty).
1247166	O	<b>Exhaust: 2017 EPA RH Under DPF/SCR w/ RH</b> side of cab vertical tailpipe w/ daycabs, extended daycabs, or modular sleepers.
1290124	O	<b>Tailpipe: 5 in. single 24 in. 45 degree curved.</b>
1321145	O	<b>Fuel Filter:Fleetguard FS1003</b> Fuel/Water Separator for PX-9
1321200	O	<b>Run Aid:None</b> *For Fuel Filter
1321305	O	<b>Start Aid:12V Heat</b> *For Fuel Filter
1500029	S	<b>Kenworth Fuel Cooler</b> Required for Cummins engines with a single fuel tank. Required for PACCAR MX-13 engine with a single fuel tank and stationary use: High RPM, low vehicle speed, sustained for longer than 1 hour. Optional for all other applications.
1504002	O	<b>Immersion block heater 120V 1000W w/plug under</b> door on C500, T660, T800 & W900.
1816260	S	<b>Alternator: PACCAR 160 amp, brush type</b>
1825623	O	<b>Batteries: 3 Optima 31A Threaded post (900)</b> 2700 CCA.
1836106	S	<b>Mitsubishi 105P55 12V Starter with Cummins and PX</b> PACCAR 12 volt electrical system. W/ centralized power distribution incorporating plug-in style relays. Circuit protection for serviceability, 12-volt light system w/circuit protection circuits number & color coded. Only for Cummins or PX engines.
1900996	O	<b>Jump start terminals under hood.</b>

**Transmission & Clutch**

2011205	O	<b>Transmission: Allison 3000RDS 6-speed</b> w/PTO drive gear. 5th Gen controls. Includes heat exchanger & oil level sensor. Rugged Duty Series for vocational applications. Transynd transmission fluid is standard on all Allison 1000, 2000, 3000 & 4000 series transmissions. Requires a push button shift control code. Oil temperature gauge is standard on class 8 models.
2406452	O	<b>Driveline: 2 SPL170XL 1 centerbearing</b> requires 3500057 interaxle driveline.
2410018	O	<b>Torque converter included w/Allison</b> Transmission.

Price Level January 1, 2020  
Deal Tandem Axle Plow Truck  
Printed On: 2/24/2020 2:10:13 PM

Date February 24, 2020  
Quote Number QUO-521429-P2C0B3



Sales Code	Std/Opt	Description
2410151	O	Pushbutton control center console mounted. Class 8 with Allison Transmission.
2410204	O	Delete Allison Fuel Sense
2410311	O	Decline Allison Neutral at Stop Stand-Alone
2429038	O	PTO adapter for front engine PTO.
2429102	O	Chassis will not be fitted w/transmission PTO. (Prevents ECU F/Interfering w/ PTO Only).
<b>Front Axle &amp; Equipment</b>		
2536002	O	PACCAR Front Axle rated at 20K, standard track, 4 in. drop.
2641137	O	Front Brakes: 20K Meritor Q-Plus 16.5x6 in.
2690013	O	Front Brake Drum: 20,000 lbs. Meritor X30 light weight 16-1/2x6 in.
2690039	O	Integral Knuckle for Air Disc Brake, for use on PACCAR Steer Axle
2702020	O	Front Hubs Iron hub pilot 20,000 lbs. 10 Bolt 16.5x6in. or 7in. or air disc brakes. 10 Bolt, 11-1/4 in. bolt circle. Consider Wheelguards (5850002) with aluminum wheels.
2741970	S	ConMet PreSet Plus Hub package; front axle.
2750001	S	Hubcap: front vented.
2765001	O	Front Auto Slack Adjuster.
2866020	O	Front Springs: Taperleaf 20K w/ shock absorbers w/ maintenance-free elastomer spring pin bushings. Standard with rubber pins except for C500 which has threaded pins. Not available on W900L. W900B use 2866021.
2895202	O	Dual power steering gears: 20K Sheppard M100P.
2899336	O	Power Steering Cooler:Radiator Mounted Air-to-Oil
2900616	O	Threaded Bushings for taperleaf spring 16K, 18/20K, 22K, 40K replacing rubber.
<b>Rear Axle &amp; Equipment</b>		
3122250	O	Dual Meritor MP40-14x3 rear axle rated at 40K. Tandem rear axles with pump.
3200586	O	Rear Axle Ratio - 5.86.
3354007	O	Dual Rear Brakes 16-1/2x7 in. to 46K; Meritor Q- plus-extended service S-cam.
3392005	O	Dual Rear Brake Drums: cast.

Price Level January 1, 2020  
Deal Tandem Axle Plow Truck  
Printed On: 2/24/2020 2:10:13 PM

Date February 24, 2020  
Quote Number. QUO-521429-P2C0B3



Sales Code	Std/Opt	Description
3403460	O	Dual Rear Hubs: Iron hub pilot 11-1/4 in. BC.
3441972	O	ConMet PreSet Plus Hub package; dual rear axle.
3465002	O	Dual Rear axle automatic slack adjusters.
3485207	O	Spring Brake: 3030 long stroke dual 30 square inches travel. Helps keep brakes in adjustment longer.
3495226	S	Bendix 4S/4M anti-lock brake system.
3500057	O	Interaxle driveline 1 Dana SPL170XL
3730030	O	Rear suspension: Tandem Kenworth Airglide 400 40K 52 in. axle spacing. Air suspension w/ 9 in. ride height. Includes air suspension dump valve.
3836500	O	Heavy-duty gussets for forward suspension crossmember on Airglide 400/460, Chalmers, or Hendrickson beam suspensions. This replaces the standard gussets.
<b>Tires &amp; Wheels</b>		
4038678	O	Front tires: Goodyear G289 WHA 315/80R22.5 20PR. All position. 43.1 in. diameter. 20 in. SLR.
4230011	O	Rear Tires: Goodyear G182 RSD GHG 11R22.5 16PR
4900008	O	Rear Tire Quantity: 8
5042311	O	Front Wheel; Accuride 29039 22.5X9 steel Steel Armor(TM) powder coat, hub-pilot mount. 10000lb. maximum rating. 5-hand holes.
5242258	O	Rear Wheel: Accuride 50291 white 22.5X8.25 heavy-duty 22.5x8.25; Steel Armor(TM) powder coat, hub-pilot mount. 8000lb. maximum rating. 2-hand holes. Air disc brake compatible. Code is priced per pair of wheels.
5853906	O	Powder coat white steel wheel. Use in conjunction with front, dual front, rear, spare or lift axle wheel code(s). All wheels on chassis must have same finish color.
5900008	O	Rear Wheel/Rim Quantity: 8
<b>Frame &amp; Equipment</b>		
6056400	O	Frame Rails: 10-3/4 x 3-1/2 x 3/8in. Steel 285in. to 336 in. Truck frame weight is 3.48 lb.-in. per pair of rails. Section modulus is 17.80, RBM is 2,132,000 in.-lbs per rail. Frame rail availability may be restricted based upon application, axle/suspension capacity, fifth wheel setting, or component/dimensional specifications. The results of the engineering review may result in a change to the requested frame rail. If a change is required Kenworth Application Engineering will advise the dealer of the appropriate material specification for a substitute rail.
6141200	O	Full Steel Insert: for 10-5/8 in. or 10-3/4 in.

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Sales Code	Std/ Opt	Description
		Steel to 284 in. or 2nd insert for 11-5/8 in. steel frame. Adds 1,149,000 lb.-in. to main rail RBM. Truck insert weight is 2.05 lb.-in. per pair of rails. Full frame insert length is equal to wheelbase plus rear frame cutoff plus dimension forward of front axle by model: T660, T680, T800, T880 = 21.26 in.; C500B = bumper setting minus 0.79 in.; W900B = 5.27 in., W900L = 1.50 in., W900S = 3.27 in.; T440/T470 50 in. bumper setting = 21.26 in., T470 73 in. bumper setting = 72.3 in.
6302460	S	<b>Bumper: Tapered painted steel channel.</b> Requires a bumper setting code.
6319073	O	<b>73 in. Bumper setting. Requires a bumper code.</b>
6321005	O	<b>Removable Front Tow Hooks: 2.</b>
6390033	O	<b>T470 W/ extended front frame rail. Must code</b> for rail separately.
6390110	O	<b>Mudflaps, Front: Extra wide for use w/ tires that</b> are wide base singles.
6390312	O	<b>Brackets: Iron front spring drive. Included with</b> front spring capacity of 16,000 lbs or greater; code not required.
6405000	O	<b>In-cab steel battery box: under rider seat or in</b> stand alone box. Requires appropriate AGM battery code, which varies by model, and appropriate rider seat code be selected prior to entering the workscreen. Includes 1 battery disconnect switch.
6409906	O	<b>In-Cab battery box location: Under rider seat.</b>
6451090	S	<b>T470, C5, T6, T8 non-polished DPF/SCR or CNG cover</b> diamond plate w/ step. For use w/ 2010 or later exhaust systems. For T8, use extended length non-polished battery box on opposite rail to match the length of under cab components. End plates will be painted standard black frame color.
6721102	S	<b>Rear mudflap arms: Betts B-25 standard-duty,</b> straight. Includes B1732 mounting brackets as standard.
6722000	S	<b>Rear mudflap shields: White plastic antisail w/</b> Kenworth logo.
6742009	S	<b>Square end-of-frame w/o crossmember; non-towing.</b>
<b>Fuel Tanks &amp; Equip</b>		
7210090	O	<b>Fuel Tank: 90 US gallon 24.5in. aluminum under</b> replace. Class 8 fuel tanks w/ o locking caps include an anti-siphon device on the filler neck.
7722011	S	<b>Small round DEF tank. 11 gallons of</b> usable volume. The DEF tank will be located on the side you specified. If you have specific configuration or body builder concerns, please utilize the Custom Frame Layout option. Standard capacity is calculated by fuel capacity of the vehicle and will accommodate two diesel fill-ups for every DEF fill-up. For 1:1 DEF fuel fill ratio, add 7889204.
7889006	O	<b>Fuel fill forward tank(s) BOC.</b>
7889203	S	<b>DEF to fuel fill ratio 2:1 or greater.</b>



Sales Code	Std/Opt	Description
7889604	S	DEF tank location is LH.
7920090	O	Location: 90 gal fuel tank LH under cab
<b>Cab &amp; Equipment</b>		
8024310	S	<b>Cab: Curved Glass Conventional.</b> Cab includes aluminum & fiberglass fully hucked cab w/ all aluminum bulkhead doors & continuous stainless steel piano-style door hinges. Single electric horn standard. Incandescent exterior lights include diagnosable bulb detection and warning. Trailer cable on tractors includes integrity detection. Standard features include multiplex wiring for interior lights, automated pre-trip inspection (excluding T3 series), short and open check diagnostics. Warning alarm will sound when lights are left on.
8090410	O	<b>Hood: T470 Sloped Hood for straight rail.</b> Includes radiator mounted grille, split fenders, mudflaps, & separate bumper.
8108010	S	<b>Cab heater: W/Integral defrosters &amp; A/C 45,000</b> btu cab heater. No sleeper heater/AC. Includes 5 mode rotary control. T660 include filter media.
8201013	S	<b>Steering wheel: 18 in. 4-spoke.</b>
8201200	S	<b>Adjustable telescoping tilt steering column.</b>
8208495	O	<b>Two spare switches: Wired to power.</b>
8221144	O	<b>Gauge: Air suspension pressure gauge.</b>
8222712	O	<b>Gauge: Fuel filter restriction gauge.</b>
8222722	O	<b>Gauge: Manifold Pressure Gauge.</b> The NavPlus HD unit includes a virtual manifold pressure gauge.
8240014	O	<b>Additional Speedo Sensor Wire In Cab</b>
8282004	S	<b>KW Driver Information Center: Includes fuel</b> economy, RPM display, trip information, truck information, diagnostics, gear display, alarm clock.
8282009	S	<b>Instrument package: Includes speedometer,</b> tachometer, fuel gauge, engine coolant temperature gauge, engine oil pressure, voltmeter. Class 8 also includes primary & secondary air reservoir gauges & an air application gauge. DEF level gauge and warning lamp are included with 2010+ engines. Engine hour meter and outside air temperature readouts are standard. Primary read out will be MPH. Add 8240620 to switch primary scale to KPH in Canada.
8282107	S	<b>Large flat panel on dash For customer-installed</b> controls. Reduces gauge count by 6.
8331140	S	<b>Cab interior: Summit. T440/T470 Only. Includes</b> smooth upholstered side & back panels w/stitched accent lines, upholstered door pads, full vinyl headliner, black dash panels & black rubber floor mats.

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Sales Code	Std/ Opt	Description
8343304	S	Interior color: Slate Gray w/trim Dark Slate Gray
8410481	O	<b>Driver seat: Kenworth Air cushion Plus IB Mordura</b> Standard features Includes 7 in. fore and aft slide adjustment w/isolator, 6-23 degree recline, air suspension with cover, dual armrests, and single chamber air lumbar support. Seat cushion is 20 inches wide w/ 2-position tilt and 2-position front cushion extension. Seat material has a horizontal stitch pattern and is 2-tone in color. Seat back is carpeted. Seat is manufactured by National. Includes inside visor and retractable 3-point matching seat belts. Grey seat belts.
8450470	O	<b>Rider seat: Kenworth Plus battery box LB Mordura</b> Standard features include fixed base and backrest, fixed seat base and backrest, and dual armrests. Seat cushion is 19.5 inches. Seat material has a horizontal stitch pattern and is 2-tone in color. Seat back is carpeted. Seat is manufactured by National. Includes inside visor and retractable 3-point matching seat belts. Grey seat belts.
8490110	S	<b>Seat color: Dark Slate Gray.</b>
8498552	O	<b>Delete dual rider armrests.</b>
8601421	O	<b>Kenworth Radio with AM/FM/WB/USB and Bluetooth</b>
8699149	O	<b>CB binding posts: Located above cupholder console.</b> Includes one red power post & one black ground post. Wiring protected for 10 amps.
8699900	O	<b>Metal ground plate: Two-way radio.</b> For customer-installed antenna located in center of cab roof.
8700108	O	<b>Under dash center console: Includes one cupholder &amp; two 12V outlets.</b> For use w/Autoshift, Ultrashift, & Allison Gen IV only.
8700168	S	<b>Non-self cancelling turn signal: W/column-mounted headlight dimmer switch &amp; intermittent wiper control.</b>
8700186	S	<b>Electric LH &amp; RH door locks.</b>
8800200	S	<b>Cab access contoured grabhandles, LH/RH.</b>
8800400	S	<b>Grabhandle: LH inside door frame above dash.</b>
8800401	S	<b>Grabhandle: RH inside door frame above dash.</b>
8832115	S	<b>Daylite Door: LH/RH includes RH peeper window</b>
8841411	S	<b>Single air horn under cab.</b>
8850300	S	<b>Lock-Down, Pass. Door, Stainless 8.5x4.4</b>
8863570	O	<b>Dual convex heated mirror 8.5 inch w/ offset mounting below regular mirror.</b>
8866101	O	<b>Mirror: Dual Prutsman mirror 7 in. x 16 in.</b> polished stainless steel, thermostatically controlled. switch located on door pad.

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Sales Code	Std/Opt	Description
8869005	S	Mirror brackets 8-1/2 ft load width.
8879213	O	Electric-powered LH & RH door window lifts. Switch located on door.
8890100	S	One-piece windshield, w/ curved glass.
8890351	O	2 in. rubber wheelwell fender extension.
<b>Lights &amp; Instruments</b>		
9010801	S	Headlamps: Halogen Projector Low Beam, Halogen Complex Reflector High Beam
9020164	S	Marker Lights: with small round base, Five cab roof mounted.
9030010	S	Turn Signal Lights: Mounted on fender
9070138	S	Combination Stop, Tail, Turn & Backup Lights RH & LH.
9080202	O	Switch & Wiring: Customer-installed dual beacon lights w/o insulators. Coiled wire behind dash.
9090039	S	Marker Lights: Interrupter Switch. Included in Turn Signal For All Models Except T3. The T3 Switch Is In The Dash.
9090049	S	Omit Brake Light with Engine Brake. Can only be selected when chassis also has engine brake. Cannot be used with options to delete engine brake.
9090058	O	Switch & Wiring: For customer-installed plow light. Includes circuit breaker.
9090126	O	Electric Backup Alarm: Meets SAE J994 & OSHA requirements.
9090302	O	Junction Box: Mounted Behind Cab or Sleeper Not Mounted at End of Frame.
9090845	O	Circuit Breakers: Replacing fuses. Does not apply to any 5-amp fuse box position. Brakers include stop/brake/turn, tail lamp, high & low beams, marker/clearance lamps, horn, fuel heat, gauges, air dryer, HVAC controls, panel lamps. Some circuits will remain fuses.
<b>Air Equipment</b>		
9101215	S	Air Dryer Bendix AD-IS heated Puraguard
9108001	S	Moisture ejection valve w/ pull cable drain.
9140020	S	Nylon air tubing in frame & cab, excluding hoses subject to excessive heat or flexing.
<b>Extended Warranty</b>		
9200008	O	Base Warranty - PACCAR PX-9 Engine 24 months / 250,000 miles / 402,336 km / 6250 hours.
9200021	O	Base Warranty - Standard Service Heavy Duty

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Sales Code	Std/Opt	Description
		12 months / 100,000 miles / 160,000 km.

**Miscellaneous**

9400072 O Ship to Dealer.

9409852 O GHG Secondary Manufacturer: Does Not Apply

**Promotions**

**Paint**

9700000 O Paint color number(s).  
 N9702 A - 1096 ORANGE  
 N9770 BUMPER 1096 ORANGE  
 N9720 FRAME N0001 BLACK

9943001 S Bumper Painted Color A

9943051 O Day Cab Premium Paint

9944820 O 1 - Color Paint - Day Cab  
 Color will be White if no other color is specified.

9960003 O Non-standard paint color.

9965510 S Base coat/clear coat.  
 The Kenworth Color Selector contains additional instructions, as well as information on Kenworth paint guidelines and surface finish applications. Kenworth is standard with Dupont Imron Elite paint.

**Order Comments**



## Prices and Specifications Subject to Change Without Notice.

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Unpublished options may require review/approval.

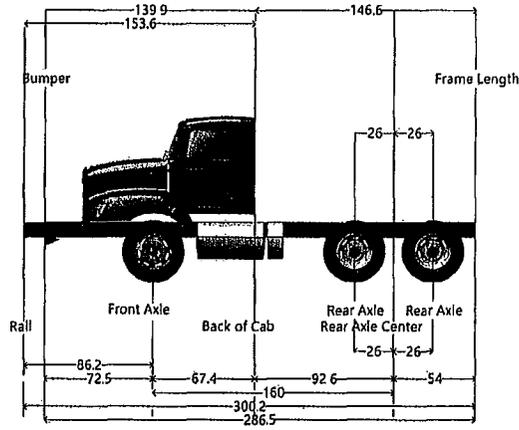
Dimensional and performance data for unpublished options may vary from that displayed in CRM.

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## HORIZONTAL DIMENSIONS



Dimension	Measurement	Start	End
Axle Spacing	52	134	186
Bumper to Back of Cab	139.9	72.5	67.4
Bumper to Front Axle	72.5	72.5	0
Bumper to Front Frame	13.7	72.5	-86.2
Cab to End of Frame	146.6	67.4	214
Cab to Rear Axle	92.6	67.4	160
Effective Bumper to Back Of Cab	139.9	72.5	67.4
Frame Length	300.2	-86.2	214
Front Axle to Back of Cab	67.4	0	67.4
Front of Frame to Axle	86.2	-86.2	0
Load Space	146.6	67.4	214
Overall Length	286.6	72.5	214
Overhang	54	160	214
Pusher Offset #1	26	134	160
Pusher Offset #2	26	134	160
Pusher Offset #3	26	134	160
Tag Offset	26	160	186
Wheelbase	160	0	160