



May 13, 2019

City of Willoughby Hills
Attn: Finance Department
35405 Chardon Road
Willoughby Hills, OH 44094

RE: 2019 Heavy Duty Single Axle Dump Truck & Chassis and Snow & Ice Package

In response to your Invitation to Bid: 2019 Heavy Duty Single Axle Dump Truck & Chassis and Snow & Ice Package, Fyda Freightliner Cincinnati submits the attached response. Please find the my offered Western Star 4700SB truck and Henderson body specs, warranty information and product information. The completed truck is currently on the ground and ready to deliver within 14 days of issued purchase order.

Pricing for the complete package

\$ 171,613.00

Optional Extended Warranty information is included with the bid packet. You can choose from Cummins Engine extended engine warranty and Western Star extended chassis warranty. Pricing is available upon request.

We offer free online service manuals, parts manuals and wiring diagrams. You can contact me directly on information to get you set up. I appreciate the opportunity to earn your business. Please contact me direct with any additional questions.

Sincerely

A handwritten signature in black ink, appearing to read "Mike Bailey".

Mike Bailey
Municipal Sales
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Mike Bailey

Western Star 4700SB



Picture is not actual truck. Truck is in production. Delivery available in March 2019
Components shown may not reflect all spec'd options and are not to scale

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

Description
<p>Price Level</p> <p>WESTERN STAR 4700 PRL-16T (EFF:04/25/17)</p>
<p>Data Version</p> <p>SPECPRO21 DATA RELEASE VER 018</p>
<p>Vehicle Configuration</p> <p>4700 SET-BACK FRONT AXLE CHASSIS 2019 MODEL YEAR SPECIFIED SET BACK AXLE - TRUCK TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK LH PRIMARY STEERING LOCATION</p>
<p>General Service</p> <p>TRUCK/TRAILER CONFIGURATION DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES) CONSTRUCTION SERVICE GOVERNMENT BUSINESS SEGMENT DIRT/SAND/ROCK COMMODITY TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS MAXIMUM 8% EXPECTED GRADE SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE WESTERN STAR VOCATIONAL WARRANTY EXPECTED FRONT AXLE(S) LOAD : 16000.0 lbs EXPECTED REAR DRIVE AXLE(S) LOAD : 23000.0 lbs EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 39000.0 lbs</p>

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Description

EXPECTED GROSS COMBINATION WEIGHT :
65000.0 lbs

Truck Service

FRONT PLOW/END DUMP BODY
EXPECTED TRUCK BODY LENGTH : 0.0 ft

Tractor Service

FLATBED TRAILER
SINGLE (1) TRAILER

Engine

CUM L9 330 HP @ 2000 RPM, 2200 GOV RPM,
1000 LB/FT @ 1400 RPM

Electronic Parameters

75 MPH ROAD SPEED LIMIT
CRUISE CONTROL SPEED LIMIT SAME AS ROAD
SPEED LIMIT
CUMMINS TRIP INFORMATION REPORTS
ENABLED; LEVEL 1: 4 MPH, LEVEL 2: 7 MPH
ABOVE ROAD SPEED LIMIT
REGEN INHIBIT SPEED THRESHOLD - 5 MPH

Engine Equipment

2016 ONBOARD DIAGNOSTICS/2010
EPA/CARB/FINAL GHG17 CONFIGURATION
2008 CARB EMISSION CERTIFICATION - CLEAN
IDLE (INCLUDES 6X4 INCH LABEL ON LEFT SIDE
OF HOOD)
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
DR 12V 160 AMP 28-SI QUADRAMOUNT PAD
ALTERNATOR WITH REMOTE BATTERY VOLT
SENSE
(3) ALLIANCE ABSORBED GLASS MAT MODEL
7A31, GROUP 31, 12 VOLT MAINTENANCE FREE
2190 CCA THREADED STUD BATTERIES
PASSENGER SEAT BATTERY BOX VENTED TO
OUTSIDE OF CAB

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Description

BATTERY BOX MOUNTED UNDER PASSENGER SEAT

WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN

PLASTIC BATTERY BOX COVER

POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER

CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE

AIR COMPRESSOR DISCHARGE LINE

ELECTRONIC ENGINE INTEGRAL WARNING AND DERATE PROTECTION SYSTEM

CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH ON/OFF DASH SWITCH

RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH

10 FOOT 06 INCH (126 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT

RH CURVED VERTICAL TAILPIPE B-PILLAR MOUNTED ROUTED FROM STEP

13 GALLON DIESEL EXHAUST FLUID TANK

100 PERCENT DIESEL EXHAUST FLUID FILL

STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING

POLISHED ALUMINUM DIESEL EXHAUST FLUID TANK COVER

LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION

STAINLESS STEEL AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD

HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE

AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED

CUMMINS SPIN ON FUEL FILTER

COMBINATION FULL FLOW/BYPASS OIL FILTER

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Description

FLEETGUARD PLAIN COOLANT FILTER
1300 SQUARE INCH ALUMINUM RADIATOR
MOUNTING FOR FIREWALL MOUNTED SURGE
TANK
ANTIFREEZE TO -34F, OAT (NITRITE AND
SILICATE FREE) EXTENDED LIFE COOLANT
GATES BLUE STRIPE COOLANT HOSES OR
EQUIVALENT
CONSTANT TENSION HOSE CLAMPS FOR
COOLANT HOSES
RADIATOR DRAIN VALVE
LOWER RADIATOR GUARD
PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK
HEATER
NO OIL PREHEATER
CHROME ENGINE HEATER RECEPTACLE
MOUNTED UNDER LH DOOR
ALUMINUM FLYWHEEL HOUSING
ELECTRIC GRID AIR INTAKE WARMER
DELCO 12V 38MT HD STARTER WITH
INTEGRATED MAGNETIC SWITCH

Transmission

ALLISON 3000 RDS AUTOMATIC TRANSMISSION
WITH PTO PROVISION

Transmission Equipment

ALLISON VOCATIONAL PACKAGE 223 -
AVAILABLE ON 3000/4000 PRODUCT FAMILIES
WITH VOCATIONAL MODELS RDS, HS, MH AND
TRV
ALLISON VOCATIONAL RATING FOR ON/OFF
HIGHWAY APPLICATIONS AVAILABLE WITH ALL
PRODUCT FAMILIES
PRIMARY MODE GEARS, LOWEST GEAR 1,
START GEAR 1, HIGHEST GEAR 6, AVAILABLE
FOR 3000/4000 PRODUCT FAMILIES ONLY
SECONDARY MODE GEARS, LOWEST GEAR 1,
START GEAR 1, HIGHEST GEAR 6, AVAILABLE
FOR 3000/4000 PRODUCT FAMILIES ONLY
S1 PERFORMANCE PRIMARY SHIFT SCHEDULE,
AVAILABLE FOR 3000/4000 PRODUCT FAMILIES
ONLY

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Description

S1 PERFORMANCE SECONDARY SHIFT
SCHEDULE, AVAILABLE FOR 3000/4000
PRODUCT FAMILIES ONLY

2200 RPM PRIMARY MODE SHIFT SPEED
2200 RPM SECONDARY MODE SHIFT SPEED

DISABLE - LOAD BASED SHIFT SCHEDULE,
DISABLE - VEHICLE ACCELERATION CONTROL

MAXIMUM ENGINE SPEED FOR PTO
ENGAGEMENT 1100 RPM

MAXIMUM OUTPUT SPEED FOR PTO
OPERATION 4000 RPM - ALLISON 5TH GEN
TRANSMISSIONS

ELECTRONIC TRANSMISSION CUSTOMER
ACCESS CONNECTOR, BLUNT CUT, MOUNTED
BETWEEN DRIVER AND PASSENGER SEATS

CUSTOMER INSTALLED CHELSEA 277 SERIES
PTO

PTO MOUNTING, LH SIDE OF MAIN
TRANSMISSION

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

PUSH BUTTON ELECTRONIC SHIFT CONTROL,
DASH MOUNTED

TRANSMISSION PROGNOSTICS - ENABLED 2013

WATER TO OIL TRANSMISSION COOLER, IN
RADIATOR END TANK

TRANSMISSION OIL CHECK AND FILL WITH
ELECTRONIC OIL LEVEL CHECK

SYNTHETIC TRANSMISSION FLUID (TES-295
COMPLIANT)

Front Axle and Equipment

DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74
DROP SINGLE FRONT AXLE

MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT
BRAKES, DOUBLE ANCHOR, FABRICATED
SHOES

NON-ASBESTOS FRONT BRAKE LINING

CONMET CAST IRON FRONT BRAKE DRUMS

FRONT BRAKE DUST SHIELDS

FRONT OIL SEALS

VENTED FRONT HUB CAPS WITH WINDOW,
CENTER AND SIDE PLUGS - OIL

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Description

STANDARD SPINDLE NUTS FOR ALL AXLES
MERITOR AUTOMATIC FRONT SLACK
ADJUSTERS
STANDARD KING PIN BUSHINGS
TRW TAS-85 POWER STEERING
POWER STEERING PUMP
4 QUART POWER STEERING RESERVOIR
SYNTHETIC 50W FRONT AXLE LUBE

Front Suspension

18,000# FLAT LEAF FRONT SUSPENSION
GRAPHITE BRONZE BUSHINGS WITH SEALS -
FRONT SUSPENSION
FRONT SHOCK ABSORBERS

Rear Axle and Equipment

RS-23-160 23,000# R-SERIES SINGLE REAR
AXLE
6.14 REAR AXLE RATIO
IRON REAR AXLE CARRIER WITH STANDARD
AXLE HOUSING
MXL 17T MERITOR EXTENDED LUBE MAIN
DRIVELINE WITH HALF ROUND YOKES
DRIVER CONTROLLED TRACTION
DIFFERENTIAL - SINGLE REAR AXLE
(1) DRIVER CONTROLLED DIFFERENTIAL LOCK
REAR VALVE FOR SINGLE DRIVE AXLE
INDICATOR LIGHT FOR EACH DRIVER
CONTROLLED TRACTION DEVICE SWITCH
MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY
CAM REAR BRAKES, DOUBLE ANCHOR,
FABRICATED SHOES
NON-ASBESTOS REAR BRAKE LINING
BRAKE CAMS AND CHAMBERS ON FORWARD
SIDE OF DRIVE AXLE(S)
CONMET CAST IRON REAR BRAKE DRUMS
REAR BRAKE DUST SHIELDS
REAR OIL SEALS
BENDIX EVERSURE LONGSTROKE 1-DRIVE
AXLE SPRING PARKING CHAMBERS
HALDEX AUTOMATIC REAR SLACK ADJUSTERS
SYNTHETIC 75W-90 REAR AXLE LUBE

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Description

Rear Suspension

30,000# FLAT LEAF SPRING REAR SUSPENSION
WITH HELPER AND RADIUS ROD
SPRING SUSPENSION - NO AXLE SPACERS
STANDARD AXLE SEATS IN AXLE CLAMP
GROUP
FORE/AFT CONTROL RODS

Brake System

WABCO 4S/4M ABS WITHOUT TRACTION
CONTROL
REINFORCED NYLON, FABRIC BRAID AND WIRE
BRAID CHASSIS AIR LINES
FIBER BRAID PARKING BRAKE HOSE
STANDARD BRAKE SYSTEM VALVES
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE,
NO REAR PROPORTIONING VALVE
WABCO SS-1200 PLUS AIR DRYER WITH
INTEGRAL AIR GOVERNOR AND HEATER
WABCO OIL COALESCING FILTER FOR AIR
DRYER
AIR DRYER MOUNTED INBOARD ON LH RAIL
ALUMINUM AIR BRAKE RESERVOIRS;
CUSTOMER ACCEPTS TANKS MOUNTED
PERPENDICULAR TO RAIL
CLEAR FRAME RAILS FROM BACK OF CAB TO
FRONT REAR SUSPENSION BRACKET, BOTH
RAILS OUTBOARD
BW DV-2 AUTO DRAIN VALVE WITH HEATER ON
WET TANK ONLY AND PETCOCKS ON ALL
OTHER TANKS
CAB BLOW OUT KIT WITH AIR HOSE AND
NOZZLE INSIDE LH CAB ENTRY DOOR

Trailer Connections

AIR CONNECTIONS TO END OF FRAME WITH
GLAD HANDS FOR TRUCK AND NO DUST
COVERS
PRIMARY CONNECTOR/RECEPTACLE WIRED
FOR SEPARATE STOP/TURN, ABS CENTER PIN
POWERED THROUGH IGNITION
SAE J560 7-WAY PRIMARY TRAILER CABLE
RECEPTACLE MOUNTED END OF FRAME

Wheelbase & Frame

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Description

4200MM (165 INCH) WHEELBASE
7/16X3-9/16X11-1/8 INCH STEEL FRAME
(11.11MMX282.6MM/0.437X11.13 INCH) 120KSI
PARTIAL INNER FRAME REINFORCEMENT AT
FRONT SUSPENSION
BODY COMPANY INSTALLED ADDITIONAL
FRONT FRAME REINFORCEMENT FOR SNOW
PLOW
1525MM (60 INCH) REAR FRAME OVERHANG
FRAME OVERHANG RANGE: 51 INCH TO 60
INCH
12 INCH INTEGRAL FRONT FRAME EXTENSION
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) :
101.69 in
CALCULATED EFFECTIVE BACK OF CAB TO
REAR SUSPENSION C/L (CA) : 98.69 in
CALC'D FRAME LENGTH - OVERALL : 282.6
CALC'D SPACE AVAILABLE FOR DECKPLATE :
101.69 in
CALCULATED FRAME SPACE LH SIDE : 67.8 in
CALCULATED FRAME SPACE RH SIDE : 132.9 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

14 INCH CHROMED STEEL BUMPER
BUMPER MOUNTING FOR SINGLE LICENSE
PLATE
FRONT ANTI-SPRAY CAB MOUNTED MUDFLAPS
GRADE 8 THREADED HEX HEADED FRAME
FASTENERS
EXTERIOR HARNESSSES WRAPPED IN
ABRASION TAPE

Fuel Tanks

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Description

80 GALLON/302 LITER ALUMINUM FUEL TANK -
LH
25 INCH DIAMETER FUEL TANK(S)
POLISHING OF FUEL/HYDRAULIC TANK(S) WITH
POLISHED STAINLESS STEEL BANDS
FUEL TANK(S) FORWARD
POLISHED STEP FINISH
CHROME FUEL TANK CAP(S)
DAVCO 245 FUEL/WATER SEPARATOR WITH 12
VOLT HEAT AND WATER IN FUEL SENSOR
EQUIFLO INBOARD FUEL SYSTEM
HIGH TEMPERATURE REINFORCED NYLON
FUEL LINE
FUEL COOLER

Tires

MICHELIN X WORKS Z 315/80R22.5 20 PLY
RADIAL FRONT TIRES
BRIDGESTONE M770 11R22.5 14 PLY RADIAL
REAR TIRES

Hubs

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

Wheels

ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB
PILOT 5.99 INSET ALUMINUM FRONT WHEELS
ALCOA LVL ONE 88367X 22.5X8.25 10-HUB
PILOT ALUMINUM DISC REAR WHEELS
POLISHED FRONT WHEELS; OUTSIDE ONLY
POLISHED REAR WHEELS; OUTSIDE OF OUTER
WHEELS ONLY
FRONT WHEEL MOUNTING NUTS
REAR WHEEL MOUNTING NUTS
NYLON WHEEL GUARDS FRONT AND REAR ALL
INTERFACES

Cab Exterior

110 INCH BBC STEEL CONVENTIONAL CAB
WESTERN STAR STAINLESS STEEL CAB SKIRT
AIR CAB MOUNTS WITH CHECK VALVE

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Description

STAINLESS STEEL SILL PLATES
NONREMOVABLE BUGSCREEN MOUNTED
BEHIND GRILLE
FRONT FENDERS
2 INCH FENDER EXTENSIONS
LH AND RH EXTENDED EXTERIOR GRAB
HANDLES WITH RUBBER INSERTS AND LH AND
RH INTERIOR GRAB HANDLES MOUNTED TO A
POST
STATIONARY BRIGHT FINISH GRILLE
CHROME HOOD MOUNTED AIR INTAKE GRILLE
GALVANEALD STEEL SEVERE SERVICE CAB
FIBERGLASS HOOD
HOOD LINER INSULATION WITH SINGLE
FIREWALL INSULATION
DUAL HADLEY 22 INCH CHROMED ROUND AIR
HORNS
SINGLE ELECTRIC HORN
DUAL HORN SHIELDS
ALL UNIT(S) KEYED ALIKE WITH CUSTOMER
SPECIFIED KEY NUMBER D420
REAR LICENSE PLATE MOUNT END OF FRAME
SINGLE RECTANGULAR SEALED BEAM
HEADLIGHTS WITH BRIGHT BEZELS
LED CHROME BULLET MARKER LIGHTS
WIRING AND SWITCH FOR CUSTOMER
FURNISHED SNOW PLOW LAMPS WITH SINGLE
CONNECTION AT LH FORWARD
INTEGRAL LED STOP/TAIL/BACKUP LIGHTS
STANDARD FRONT TURN SIGNAL LAMPS
DUAL WEST COAST STAINLESS STEEL HEATED
MIRRORS WITH LIGHTS AND LH AND RH
REMOTE
DOOR MOUNTED MIRRORS
102 INCH EQUIPMENT WIDTH
LH AND RH SUREPLUS 574 8 INCH BRIGHT
FINISH HEATED CONVEX MIRRORS WITH
SEPARATE ADJUSTMENT, MOUNTED BELOW
MIRROR
RH DOWN VIEW MIRROR
STANDARD SIDE/REAR REFLECTORS

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Description

RH AFTERTREATMENT SYSTEM CAB ACCESS
WITH POLISHED DIAMOND PLATE COVER
17.5X35 INCH TINTED REAR WINDOW
TINTED DOOR GLASS
RH AND LH ELECTRIC POWERED WINDOWS
2-PIECE TINTED CURVED GASKET MOUNTED
HEATED WINDSHIELD
2 GALLON WINDSHIELD WASHER RESERVOIR
WITHOUT FLUID LEVEL INDICATOR, MOUNTED
UNDER CAB, WITH REMOTE FILL

Cab Interior

BUCKSKIN TAN VINYL PREMIUM INTERIOR
BLACK HARD TRIM
BASE LEFT HAND DOOR TRIM
BASE RIGHT HAND DOOR TRIM
BLACK MATS WITH DOUBLE INSULATION
DASH MOUNTED ASH TRAY AND (1) POWER
OUTLET
FORWARD ROOF MOUNTED CONSOLE
PASSENGER SIDE WING DASH MOUNTED
GLOVE BOX WITH LOCKING DOOR
LH AND RH DOOR MAP POCKETS
(2) COAT HOOKS ON BACKWALL OF CAB
(1) DOUBLE CUP HOLDER WITH CELL PHONE
HOLDER LH OR RH DASH
TWO-TONE CHARCOAL UPPER/COOL GRAY
LOWER SOFT TOUCH WING DASH WITH BLACK
DRIVER SIDE COSMETIC UNDER DASH COVER
STANDARD WIRING
2-1/2 LB. FIRE EXTINGUISHER MOUNTED
OUTBOARD OF DRIVER SEAT
HEATER, DEFROSTER AND AIR CONDITIONER
WITH CONSTANT TEMPERATURE CONTROL
AND COSMETIC COVER
HVAC DUCTING WITH DUST/ODOR MAIN FRESH
AIR FILTER AND OUTSIDE PRE-FILTER
MAIN HVAC CONTROLS WITH RECIRCULATION
SWITCH
STANDARD HEATER PLUMBING WITH BALL
SHUTOFF VALVES
DENSO HEAVY DUTY AIR CONDITIONER
COMPRESSOR

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Description

RADIATOR MOUNTED AIR CONDITIONER
CONDENSER
BINARY CONTROL, R-134A
ADDITIONAL CAB SIDEWALL INSULATION
AUTOMATIC SELF-RESET CIRCUIT BREAKER IN
MAIN DASH POWER DISTRIBUTION BOX AND
CIRCUIT BREAKER/FUSE IN AUXILIARY POWER
DISTRIBUTION BOXES
DOOR ACTIVATED DOME LIGHT, UNDER DASH
LIGHT WITH LH AND RH DOOR MOUNTED
COURTESY LIGHTS AND LH AND RH READING
LIGHTS
CAB DOOR LATCHES WITH MANUAL DOOR
LOCKS
(2) 12 VOLT POWER RECEPTACLES MOUNTED
IN DASH
TRIANGULAR REFLECTORS KIT WITHOUT
FLARES SHIPPED LOOSE IN CAB
PREMIUM HIGH BACK AIR SUSPENSION DRIVER
SEAT WITH 3 CHAMBER AIR LUMBAR,
INTEGRATED CUSHION EXTENSION, FORWARD
AND REAR CUSHION TILT, ADJUSTABLE SHOCK
ABSORBER
BATTERY BOX MID BACK NON SUSPENSION
PASSENGER SEAT
BLACK SUSPENSION COVER FOR AIR DRIVER
SEAT
DUAL DRIVER SEAT ARMRESTS, NO
PASSENGER SEAT ARMRESTS
SINGLE COLOR LAREDO LEATHER DRIVER
SEAT COVER
SINGLE COLOR LAREDO LEATHER PASSENGER
SEAT COVER
3 POINT HIGH VISIBILITY ORANGE RETRACTOR
DRIVER AND PASSENGER SEAT BELTS
ADJUSTABLE TILT AND TELESCOPING
STEERING COLUMN
2-SPOKE 18 INCH (450MM) BLACK LEATHER
WRAPPED STEERING WHEEL
DRIVER AND PASSENGER INTERIOR SUN
VISORS

Instruments & Controls

NON-ADJUSTABLE SUSPENDED PEDALS
STAR GAUGES WITH BRIGHT BEZELS

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Description

BLACK DRIVER INSTRUMENT PANEL
BLACK CENTER INSTRUMENT PANEL
LOW AIR PRESSURE INDICATOR LIGHT AND
AUDIBLE ALARM
(1) SINGLE BRAKE APPLICATION AIR GAUGE
2 INCH PRIMARY AND SECONDARY AIR
PRESSURE GAUGES
DASH MOUNTED AIR RESTRICTION INDICATOR
WITH GRADUATIONS
CRUISE CONTROL SWITCHES IN THE CENTER
PANEL
KEY OPERATED IGNITION SWITCH AND
INTEGRAL START POSITION; 4 POSITION
OFF/RUN/START/ACCESSORY
WARNING LAMP/LIGHT BAR DISPLAY, NON-
DATA LINKED
HEAVY DUTY ONBOARD DIAGNOSTICS
INTERFACE CONNECTOR LOCATED BELOW LH
DASH
2 INCH ELECTRIC FUEL GAUGE
ELECTRICAL ENGINE COOLANT TEMPERATURE
GAUGE
2 INCH TRANSMISSION OIL TEMPERATURE
GAUGE
OUTSIDE AIR TEMPERATURE GAUGE WITH
FAHRENHEIT AND CELSIUS DISPLAY MOUNTED
IN OVERHEAD CONSOLE
CUSTOMER FURNISHED AND INSTALLED PTO
CONTROLS
ELECTRIC ENGINE OIL PRESSURE GAUGE
AM/FM/WB WORLD TUNER RADIO WITH
BLUETOOTH AND USB AND AUXILIARY INPUTS,
J1939
ROOF/OVERHEAD CONSOLE MOUNTED RADIO
(4) RADIO SPEAKERS IN CAB
POWER AND GROUND WIRING FOR CB RADIO
IN OVERHEAD CONSOLE
MULTI-BAND AM/FM/WB/CB LH MIRROR
MOUNTED ANTENNA SYSTEM
ELECTRONIC MPH SPEEDOMETER WITH
SECONDARY KPH SCALE, WITH ODOMETER

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Description

STANDARD VEHICLE SPEED SENSOR WITH
ADDITIONAL SIGNAL FOR CUSTOMER USE
LOCATED BETWEEN DRIVER AND PASSENGER
SEATS

ELECTRONIC 3000 RPM TACHOMETER WITH
HOUR METER

NO VEHICLE PERFORMANCE MONITOR

IGNITION SWITCH CONTROLLED ENGINE STOP

TWO IGNITION CONTROLLED EXTRA SWITCHES
WITH INDICATOR LIGHT, 20 AMPS, WIRED
BEHIND PASSENGER SEAT

BW TRACTOR PROTECTION VALVE

TRAILER HAND CONTROL BRAKE VALVE

2 INCH TURBO AIR PRESSURE GAUGE

2 INCH VOLTMETER

SINGLE ELECTRIC WINDSHIELD WIPER MOTOR
WITH DELAY AND ARCTIC TYPE BLADES

CAB MARKER LIGHT AND HEADLIGHT SWITCH
WITH SEPARATE SWITCH AND TERMINALS FOR
CUSTOMER FURNISHED SNOW PLOW LIGHTS

TWO VALVE PARKING BRAKE SYSTEM WITH
WARNING INDICATOR

SELF CANCELING TURN SIGNAL SWITCH WITH
INTEGRAL HEADLAMP DIMMER WITH BRAKE
OVERRIDE

PACIFIC INSIGHT ELECTRONIC FLASHER

Design

PAINT: ONE SOLID COLOR

Color

CAB COLOR A: L0006EB WHITE ELITE BC
CAB INTERIOR PAINTED SAME AS CAB COLOR
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS
PAINT

POWDER WHITE (N0006EA) SPARE WHEEL/RIM
(PKWHT21, TKWHT21, W, TW)

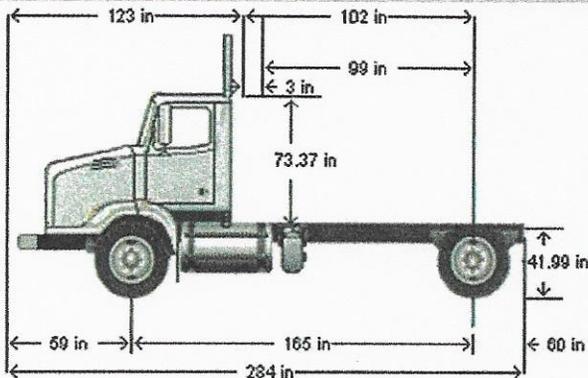
FENDER, UNDER CAB AND INTERIOR CAB
FLOOR UNDERCOATING

Certification / Compliance

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

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DIMENSIONS



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	4700SB
Wheelbase (545)	4200MM (165 INCH) WHEELBASE
Rear Frame Overhang (552).....	1525MM (60 INCH) REAR FRAME OVERHANG
Fifth Wheel (578).....	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in).....	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in).....	0
Slide Increment (in).....	0
Desired Slide Position (in).....	0.0
Cab Size (829).....	110 INCH BBC STEEL CONVENTIONAL CAB
Sleeper (682).....	NO SLEEPER BOX/SLEEPERCAB
Exhaust System (016)	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH B-PILLAR MOUNTED VERTICAL TAILPIPE

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TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	122.7
Bumper to Centerline of Front Axle (BA)	59.4
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	101.7
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	98.7
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	161.7
Cab Height (CH)	73.4
Wheelbase (WB)	165.0
Frame Overhang (OH)	60.0
Overall Length (OAL)	284.4
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	42.0

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

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G V W R

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model	4700SB
Cab Size (829).....	110 INCH BBC STEEL CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs).....	16000.0
Expected Pusher Axle(s) Load (lbs).....	0.0
Expected Rear Axle(s) Load (lbs).....	23000.0
Expected Tag Axle(s) Load (lbs).....	0.0
Expected GVW (lbs).....	39000
Expected GCW (lbs).....	65000.0
Front Axle (400).....	DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
Front Suspension (620).....	18,000# FLAT LEAF FRONT SUSPENSION
Front Hubs (418).....	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502).....	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM FRONT WHEELS
Front Tires (093).....	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES
Front Brakes (402).....	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536).....	TRW TAS-85 POWER STEERING
Rear Axle (420).....	RS-23-160 23,000# R-SERIES SINGLE REAR AXLE
Rear Suspension (622).....	30,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
Rear Hubs (450).....	CONMET PRESET PLUS PREMIUM IRON REAR HUBS
Rear Disc Wheels (505).....	ALCOA LVL ONE 88367X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS
Rear Tires (094).....	BRIDGESTONE M770 11R22.5 14 PLY RADIAL REAR TIRES
Rear Brakes (423) .	MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443).....	NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626).....	NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449).....	NO PUSHER OR TAG HUBS
Pusher/Tag Disc Wheels (509).....	NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095).....	NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456).....	NO PUSHER/TAG BRAKES

TABLE SUMMARY - GVWR

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	Front	Rear
Axle Component Weight Ratings		
Axles	16000	23000
Suspension	18000	30000
Hubs	23000	26000
Brakes	18000	23000
Wheels	20000	29600
Tires	18180	23360
Power Steering	18000	N/A
GAWR (per axle)	16000	23000
GAWR (per axle system)	16000	23000
Expected Load (per axle system)	16000	23000
Vehicle GVWR Summary		
Calculated GVWR	39000	
Expected GVWR	39000	
All weights displayed in pounds		

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

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F R A M E R B M

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545)4200MM (165 INCH) WHEELBASE
 Frame Rails (546)..... 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI(546)
 Yield Strength (psi) 120000
 Section Modulus (per rail) (cu in) 21.6
 RBM (per rail) (lbf-in) 2592000
 Inner Frame Reinforcement (547).....PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION
 Outer Frame Reinforcement (548) ..BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	4200MM (165 INCH) WHEELBASE
Frame	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI
Inner Frame Reinforcement	PARTIAL INNER FRAME REINFORCEMENT AT FRONT SUSPENSION
Outer Frame Reinforcement	BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	21.60
Frame RBM - per rail (lbf-in)	2592000

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