

TECHNICAL SPECIFICATION

MD7 42R



			WEIGHT (LB)	
CUSTOMER/VEHICLE INFO	DESCRIPTION		FRONT	REAR
S	CHASSIS (BASE MODEL)	MD742 - GEN2 - 42R MEDIUM DUTY, CLASS 7 w/ 6.7L, (MAX 33,000lbs GVWR) 107" BBC	2,095	552
	VEHICLE USE & BODY/TRAILER TYPE	SERVICE/UTILITY TRUCK	0	0
	VEHICLE VOCATION	PICKUP & DELIVERY / SHORT HAUL SERVICE	0	0
S	CUSTOMER FLEET SIZE	DEALER FLEET WITH LESS THAN 25 VEHICLES IN OWN FLEET OF ANY VEHICLE BRAND	0	0
S	TYPE OF SERVICE	COMMERCIAL	0	0
	Order Subject to Meeting All Mack Policies, Terms and Conditions, INTENDED REGISTRATION LOCATION	Including but not Limited to Applicable CARB and/or Section 177 States' Regulation requirements TENNESSEE	0	0
S	WARRANTY REGISTRATION LOCATION	USA - WARRANTY REGISTRATION LOCATION	0	0
	EMISSION WARRANTY CERTIFICATION	CARB + EPA for Cummins Diesel 6.7L	0	0
S	INITIAL REGISTRATION LOCATION	USA REGISTRATION	0	0
S	LANGUAGE-PUBS/DECAL/SIGNS	ENGLISH	0	0
S	OPERATING TERRAIN GRADE CONDITIONS	CITY, STARTING GRADES<6%	0	0
S	LOADING SURFACE FACTOR	ASPHALT LOADING AND / OR UNLOADING SURFACE	0	0
	OPERATING CLASS	OPERATING CLASS 6; 25995lb GVWR	0	0

			WEIGHT (LB)	
ENGINE & TRANSMISSION	DESCRIPTION		FRONT	REAR
S	EMISSION ON BOARD DIAG CONTROL	EMISSION OBD, DISPLAY ONLY, USA2016	0	0
	ENGINE / MOTOR	ISB6.7-325 DIESEL CUMMINS 325HP @ 2600RPM (GOV) 750 LB-FT, US21	1,597	-39
	TRANSMISSION	3000 RDS 6 SPEED ALLISON GEN6 W/PROGNOSTICS, WITH PTO PROVISION	497	113
S	FUELSENSE CALIBRATION	ALLISON FUELSENSE, NEUTRAL AT STOP	0	0
S	TRANSM AUTO NEUTRAL ON P-BRAKE	AUTO NEUTRAL SINGLE INPUT WITH SHIFT SELECTOR OVERRIDE	0	0

			WEIGHT (LB)	
ENGINE & TRANSMISSION EQUIPMENT	DESCRIPTION		FRONT	REAR
	ENGINE BRAKE TYPE	VGT TURBO EXHAUST BRAKE (DIESEL ONLY)	0	0
	CRUISE CONTROL	CRUISE CONTROL	0	0
S	ALTERNATOR	DELCO 12V 160A (28SI) BRUSH-TYPE	0	0
	BATTERY DISCONNECT SWITCH	BATTERY DISCONNECT SWITCH	5	0
S	STARTER MOTOR	12 VOLT MELCO STARTER (MITSUBISHI ELECTRIC)	0	0
S	ENGINE BLOCK HEATER	120 VOLT / 0.75 KW, ENGINE BLOCK HEATER	3	0
S	POWER TAKE OFF CONTROL	WITHOUT POWER TAKE OFF CONTROL	0	0

			WEIGHT (LB)	
AXLE & SUSPENSION	DESCRIPTION		FRONT	REAR
S	FRONT AXLE	12,000LB MERITOR MFS+ 5400 KG	1,142	0
S	SPRINGS - FRONT	MACK TAPERLEAF 12300# (5500 KG) GROUND LOAD RATING	0	0
S	FRONT AXLE BRAKES	MERITOR "S" CAM TYPE 16.5" x 5" Q+	0	0

TECHNICAL SPECIFICATION *(cont.)*



			WEIGHT (LB)	
AXLE & SUSPENSION	DESCRIPTION		FRONT	REAR
S	PARKING BRAKE VALVE	PARKING BRAKE VALVE, 1 YELLOW KNOB, ALL PARKING	0	0
S	ANTILOCK BRAKE SYSTEM	BENDIX WITH TRACTION CONTROL 4S4M	9	5
S	REAR AXLE - SINGLE	21000# (9525 kg) MERITOR RS-21-160, (W/ DIFF LOCK) CASING 11.0mm	0	1,352
S	REAR SUSPENSION - SINGLE	23000# (10432kg) MULTILEAF	0	512
S	SUSPENSION LEVELLING DEVICE (CA in PC29 only)	WITHOUT SUSPENSION LEVELLING DEVICE	0	0
S	BRAKES - REAR	MERITOR "S" CAM 16.5"x7" Q+	0	0
S	REAR AXLE RATIO	RATIO 5.63, REAR AXLE	0	0

			WEIGHT (LB)	
CHASSIS EQUIPMENT	DESCRIPTION		FRONT	REAR
S	DPF DIESEL PARTICULATE FILTER	CUMMINS SINGLE MODULE E.A.T.S. RH SIDE UNDER CAB US17 (7L over 271HP only!!)	64	95
S	EXHAUST	UNDERFRAME RIGHT SIDE INBOARD MOUNTED (Diesel engines only)	0	0
S	BODY BUILDER MODULE	EL PREP KIT, TMC RP1404 EL. INTERFACE NO BODYBUILDER MODULE	0	0

			WEIGHT (LB)	
FRAME EQUIPMENT & FUEL TANKS	DESCRIPTION		FRONT	REAR
S	WHEELBASE	151" Wheelbase (84" CA) 50" After-frame	437	375
S	FRAME RAILS	STEEL - 260MM X 70MM X 8MM -- (10.24" X 2.75" X 0.31"); RBM 1,580,000 LB-IN	0	0
S	PRIMARY FUEL FILTER	FUEL FILTER & WATER SEPARATOR (Diesel engines only)	12	0
S	FUEL TANK - LH	50 GALLON (190 L) 22" ALUMINUM ROUND	113	56

			WEIGHT (LB)	
CAB INTERIOR	DESCRIPTION		FRONT	REAR
S	KEY TYPES FOR DOORS	BASIC UNIQUE KEY	0	0
S	SPEEDOMETER &- GAUGES - UNIT(s) OF MEASURE	U.S. UNITS (PREDOMINANT)	0	0
S	LANE SUPPORT SYSTEM (LSS)	WITHOUT LANE SUPPORT SYSTEM	0	0
S	PARK BRAKE ALARM	PARK BRAKE ALARM, SOUNDS IF BRAKE OFF & DRIVER'S DOOR OPENED	0	0
S	BACK-UP ALARM	WITHOUT BACK-UP ALARM	0	0
S	AIR RESTRICTION INDICATOR	MECHANICAL, GRADUATED, ON FILTER	0	0
S	DAYTIME RUNNING LIGHTS	DRL WHEN ENGINE RUNNING & PARK BRAKE OFF	0	0
S	FIRE EXTINGUISHER	HAND FIRE EXTINGUISHER 2.2 KG (5LB) ENGLISH DECAL, ABC	0	0
S	WARNING TRIANGLE	THREE WARNING TRIANGLES	0	0
S	AUDIO SYSTEM	RADIO, AM/FM, MP3, WEATHER BAND, W/ MUTE IN REVERSE	0	0
S	AUDIO INTEGRAT. PHONE HANDSFRE	AUDIO INTEGRATED HANDSFREE PHONE, BLUETOOTH	0	0
S	AUDIO COMMUNICATION CONNECTOR	AUDIO COMMUNICATION CONNECTOR, USB AUDIO	0	0
S	AUDIO SHUTOFF	AUTOMATIC AUDIO SHUTOFF, REVERSE ENGAGED	0	0
S	COMMUNICATION EQUIPMENT	FACTORY INSTALLED GEOTAB FLEET MANAGEMENT SYSTEM	0	0
S	INTERIOR TRIM	PREMIUM SATIN FINISH INTERIOR TRIM, WITH OVERHEAD STORAGE CONSOLE	0	0
S	SEAT - DRIVER'S	MACK-AIR, VINYL HIGH BACK, 1 CHAMBER AIR LUMBAR	82	0
S	DRIVER SEAT	MACK DRIVERS SEAT, AIR SUSPENDED	0	0

TECHNICAL SPECIFICATION (cont.)



			WEIGHT (LB)	
CAB INTERIOR	DESCRIPTION		FRONT	REAR
	DRIVERS SEAT UPHOLSTERY	DRIVERS SEAT UPHOLSTERY, VINYL	0	0
	SEAT - PASSENGER'S	MACK-FIXED, VINYL BENCH SEAT, MID BACK, W/ STORAGE BOX	51	0
	PASSENGER SEAT	FIXED BENCH SEAT SUPPORT, INTEGRATED STORAGE BOX	0	0
	PASSENGERS SEAT UPHOLSTERY	PASSENGERS SEAT UPHOLSTERY, VINYL	0	0
S	SEAT BELT(S)	ALL SEAT BELTS - ADJUSTABLE D-RING, BLACK	0	0
S	STEERING WHEEL ADJUSTMENT	TILT / TELESCOPIC STEERING COLUMN	0	0
S	STEERING WHEEL SWITCHES	FLAT BOTTOM STEERING WHEEL, WITH BUTTON CONTROLS	0	0
S	BODY BUILDER INTERFACE	BODY BUILDER CONNECTIONS (on/in vehicle) Diesel Vehicles	0	0

			WEIGHT (LB)	
CAB EXTERIOR	DESCRIPTION		FRONT	REAR
S	CAB SUSPENSION TYPE	CAB SUSPENSION TYPE, AIR	0	0
S	HEADLAMPS	HEADLAMP TYPE, HALOGEN	0	0
	HOOD RADIATOR GRILLE, FINISH	HOOD RADIATOR GRILLE FINISH, BRIGHT CHROME	0	0
	FRONT BUMPER FINISH	STEEL FRONT BUMPER, BRIGHT FINISH	0	0
S	DOOR / WINDOW FEATURES	ELECTRIC WINDOWS AND DOOR LOCKS	0	0
S	DOOR WINDOW FRONT	PEEP WINDOW ON PASSENGER SIDE DOOR	0	0
	MIRRORS - EXTERIOR	HEATED AND MOTORIZED MIRRORS BOTH SIDES, BLACK (Anthem mirror)	29	0
S	GRAB HANDLES	EXTERIOR GRAB & DOOR HANDLES	0	0

			WEIGHT (LB)	
WHEELS & TIRES	DESCRIPTION		FRONT	REAR
	TIRES BRAND/TYRE - FRONT	11R22.5 G BRIDGESTONE R268 ECOPIA (12350 lbs) (Total for QTY = 2)	243	0
	WHEELS - FRONT	22.5x8.25 ACCURIDE, 51487x POWDER COATED WHITE STEEL DISC (Total for QTY = 2)	128	0
	FRONT AXLE TIRE & WHEEL QUANTITY	TWO FRONT TIRES & WHEELS	0	0
	TIRES BRAND/TYRE - REAR	11R22.5 G BRIDGESTONE M760 ECOPIA (23360 lbs) (DRIVE ONLY) (Total for QTY = 4)	0	538
	WHEELS - REAR	22.5x8.25 ACCURIDE, 51487x POWDER COATED WHITE STEEL DISC (Total for QTY = 4)	0	256
	REAR AXLE TIRE & WHEEL QUANTITY	FOUR REAR AXLE TIRES & WHEELS	0	0

			WEIGHT (LB)	
PAINT	DESCRIPTION		FRONT	REAR
S	PAINT TYPE	SOLID PAINT	0	0
S	PAINT COLOR - FIRST COLOR	GLACIER WHITE; P3029	0	0

			WEIGHT (LB)	
BASE WARRANTY & PURCHASED COVERAGES	DESCRIPTION		FRONT	REAR
S	ENGINE TOWING WARRANTY	CUMMINS ENGINES (Contact Cummins for Standard Warranty and Extended Coverage Details)	0	0
S	VEHICLE WARRANTY TYPE	NORMAL DUTY WARRANTY CLASSIFICATION	0	0
S	BASIC CHASSIS COVERAGE	CHASSIS PLAN 24 MO/UNLIMITED MI NORMAL DUTY PROTECTION PLAN	0	0

TECHNICAL SPECIFICATION (cont.)



BASE WARRANTY & PURCHASED COVERAGES			WEIGHT (LB)	
			FRONT	REAR
S	ENGINE WARRANTY	CUMMINS ENGINES B6.7 (Contact Cummins for Standard Warranty and Extended Coverage Details)	0	0
S	EMISSION COMPONENT COVERAGE	CUMMINS ENGINES (Contact Cummins for Standard Warranty and Extended Coverage Details)	0	0
S	TRANSMISSION WARRANTY	ALLISON TRANSMISSIONS (Contact Allison Transmission for standard warranty and extended coverage data)	0	0
S	AIR CONDITIONING WARRANTY	AIR CONDITIONING STANDARD COVERAGE (Sealed System Only)	0	0
S	CHASSIS TOWING WARRANTY	STANDARD CHASSIS TOWING 90 DAYS OR 5,000 MILES	0	0

SERVICES			WEIGHT (LB)	
			FRONT	REAR
S	MACK ONECALL AND ASIST	MACK ONECALL AND ASIST - 12 MONTH	0	0
S	PARTNERED SERVICES	GEOTAB FOR MACK TRUCKS - 6 MONTH	0	0

FRONT / REAR AXLE WEIGHTS (LB)

6500

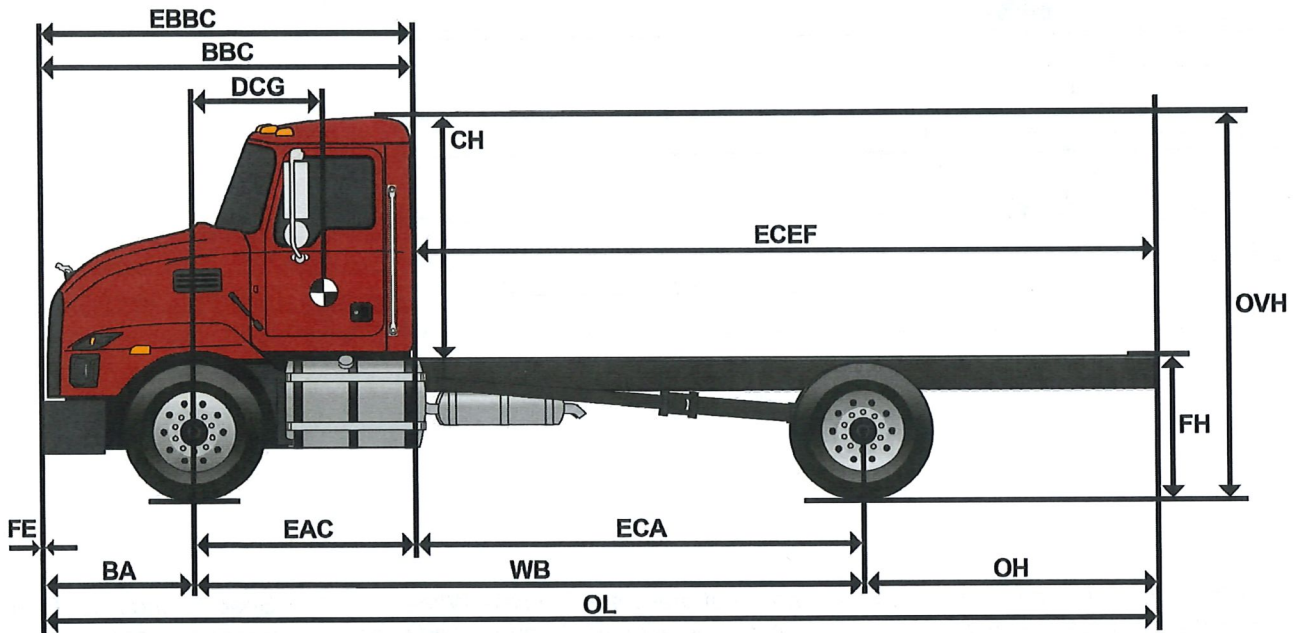
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TOTAL WEIGHT (LB)

10309

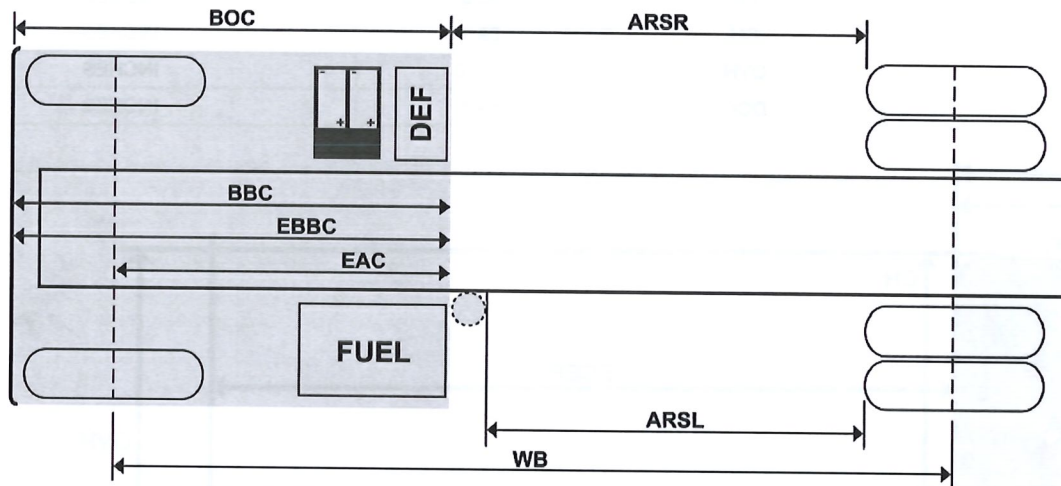
VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY

Description	Dwg Ref	Length	UOM
Front Frame Extension	FE	0.0	INCHES
Bumper to Front Axle	BA	40.0	INCHES
Eff. Bumper to Front Axle	N/A	40.0	INCHES
Wheelbase	WB	151.0	INCHES
Rear Overhang	OH	50.0	INCHES
Overall Length	OL	241.0	INCHES
Bumper to Back of Cab	BBC	107.0	INCHES
Eff. Bumper to Back of Cab	EBBC	107.0	INCHES
Eff. Cab to Rear Axle	ECA	84.0	INCHES
Eff. Front Axle to Back of Cab	EAC	67.0	INCHES
Eff. Cab to End of Frame	ECEF	134.0	INCHES
Unladen Frame Height	FH	40.9	INCHES
Cab Height	CH	69.1	INCHES
Overall Height	OVH	110.0	INCHES
Driver CG	DCG	59.1	INCHES



VEHICLE SPECIFICATION/CALCULATED PERFORMANCE SUMMARY

Description	Sales Code	Dwg Ref	Left Value(in)	Right Value(in)
Wheelbase	N/A	WB	151.0	151.0
Available Rail Space Right	N/A	ARSR	N/A	68.9
Available Rail Space Left	N/A	ARSL	58.8	N/A
Eff. Front Axle to Back of Cab	N/A	REF	67.0	67.0
Front Axle To Fender	001AA3	N/A	30.0	30.0
Battery Box	001AA3	N/A	0.0	25.0
50 GALLON (190 L) 22" ALUMINUM ROUND / TRUCK	288AC2 / 001AA3	N/A	41.0	0.0
Ad-Blue Tank	001AA3	N/A	0.0	6.0
Drive Tire Radius	901090	N/A	21.1	21.1



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.

MACK®



Mack Trucks
www.macktrucks.com

Quote

Rogers Manufacturing Company, Inc.

110 Transit Ave Nashville, TN 37210

Phone 615-244-9720 Fax 615-244-9719

Quote # 12431

Date 6/23/2025

Customer

Account # 859872

WORLDWIDE EQUIPMENT

6614 WILBANKS RD

KNOXVILLE, TN 37912

Quote Valid for 30 Days Sales Rep. JIM

Truck MACK MD

Chassis ID #

CA / CT 84"

Transmission Allison 3000 Series

Axles Single

Exhaust Unknown

Horns on Cab Unknown

Quoted To Nikolas Peters

Owner City of Jefferson City

Email nikolas.peters@thetruckpeople

Chassis Arrival

Expected Completion

P.O. #

F.O.B. Nashville, TN

Body Reference #

Group	Sub Group	Type	Description	Qty
Body	Model	R	R Series	1
	Length		10'-0"	
	Inside Width		7'-4"	
	Outside Width		8'-0"	
Floor	Material		7 Ga Hi Tensile Steel	
	Longitudinals		5" x 2" x 3/16" Longitudinal	
	Subframe		8" @ 11.5 lbs/ft channel	
	Crossmembers		4" @ 5.4 lbs/ft channel	
Sides	Height		30"	
	Material		10 Ga Hi Tensile Steel	
	Front Post		10 GA Hi Tensile	
	Side Post		10 GA Hi Tensile	
	Rear Post		7 GA Hi Tensile Steel	
	Top Rail		3 1/2" x 3 1/2" x 3/16"	
	Fenders		Formed rub rail w. deflectors between each side post	
	Fender Option		None	
	Board Pockets		Front and Rear	
	Center Lug		None	
	Top of Sides	Option	8" Wooden Side Board Painted Black	
	Steps		Flat bar steps and walk rod full length of body both sides	
Front	Material		10 GA Hi Tensile Steel	
	Cabshield		20" w/ built in windscreen	
Tailgate	Exhaust		Factory provided turnouts/elbows	
	Height		36"	
	Material		10 GA Hi Tensile Steel	
	Type		Standard 2 way	
	Slope		None, Straight	
	# of Panels		Standard	
	Hinges		Standard	

*Dealer / Customer to complete for Order

Chassis Model: _____ Last 6 of Vin: _____ Cab Height _____

Transmission: _____ CA/CT _____ Horns top of Cab: Yes or No

Exhaust Type: Single RH, Dual (turnouts), Duals (notched C/S), Horiz. under cab

Total

Quote

Rogers Manufacturing Company, Inc.

110 Transit Ave Nashville, TN 37210

Quote # 12431
Date 6/23/2025

Customer

Account # 859872
WORLDWIDE EQUIPMENT
6614 WILBANKS RD
KNOXVILLE, TN 37912

Phone 615-244-9720 Fax 615-244-9719

Quote Valid for 30 Days Sales Rep. JIM

P.O.

F.O.B. Nashville, TN

Body Reference

Truck MACK MD

Chassis ID #

CA / CT 84"

Transmission Allison 3000 Series

Axles Single

Exhaust Unknown

Horns on Cab Unknown

Quoted To

Nikolas Peters

Owner

City of Jefferson City

Email nikolas.peters@thetruckpeople

Chassis Arrival

Expected Completion

Group	Sub Group	Type	Description	Qty
	T/G Chains	Option	Long Chains, Pins Inside	
	Controls		Air Latch	
	Latches		Forged Lower Latches	
	Apron / Spreader Lip		8", Bolt On	
Lights	Body Lights		LED Lights to meet FMVSS #108	
	Rear Stop/Turn		6" LED Oval, surface mount (1 on each rear post)	
	Marker Lights		Standard LED	
Paint	Color		Black	
Tarp	Manufacturer	Option	Donovan	
	Operation		Electric	
	Arms		Aluminum Curved	
	Cover Material		Vinyl	
Mud Flaps	Front		None	
	Rear		"Worldwide" rubber flaps	
Chassis / Hydraulics	PTO		Allison Automatic Trans PTO	
	Pump		Direct Mount w/ Shifter valve	
	Control - PTO		Air Shift	
	Control - Pump		Air Shift	
	Hoist		Front Mount Telescopic	
	Cylinder Base		Cylinder base in Subframe	
	Hydraulic Tank		Standard	
	Rear Hinge Assembly		Sub Frame Rear hinge assembly	
	Chassis Lights		Use Factory Existing	
	Back Up Alarm		Yes	
	Body Safety Support		Standard body supports	
Tractor Package		Option	Tractor Package	

*Dealer / Customer to complete for Order

Chassis Model: _____ Last 6 of Vin: _____ Cab Height _____

Transmission: _____ CA/CT _____ Horns top of Cab: Yes or No

Exhaust Type: Single RH, Dual (turnouts), Duals (notched C/S), Horiz. under cab

Total

\$24,475.00