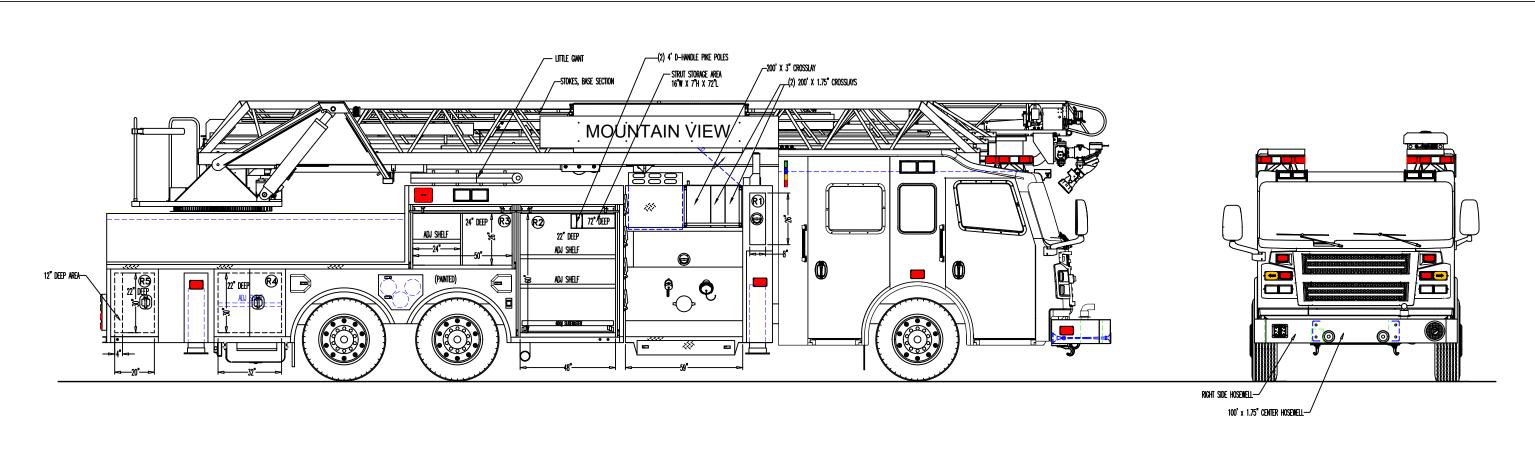
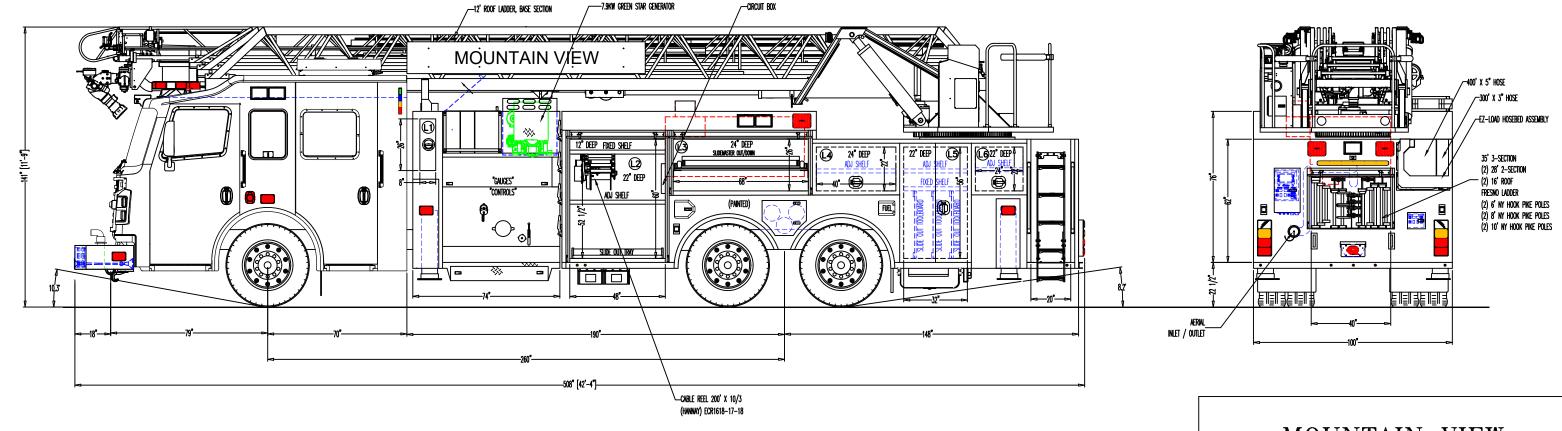
Turning Radius Summary Mountainview Viper M12532 SteerTek (Inches)												
											Curb to	Wall to
						Wheel	Inside	Outside	Average	Turning	Curb	Wall
		Rating		Wheelbase		Inset	Cramp	Cramp	Cramp	Radius	Radius	Radius
Truck Model	Front Axle	Lbs.	Spring Type	Inches	Front Tire	Inches	Angle	Angle	Angle	Inches	Inches	Inches
Commander	SteerTek	23K	Parabolic LP	260	425	4.68	43°	36.4°	39.7°	444.6	452.7	506.8
Turning Radius Summary Mountainview Viper M12532 SteerTek (Feet)												
											Curb to	Wall to
						Wheel	Inside	Outside	Average	Turning	Curb	Wall
		Rating		Wheelbase		Inset	Cramp	Cramp	Cramp	Radius	Radius	Radius
Truck Model	Front Axle	Lbs.	Spring Type	Inches	Front Tire	Inches	Angle	Angle	Angle	Feet	Feet	Feet
Commander	SteerTek	23K	Parabolic LP	260	425	4.68	43°	36.4°	39.7°	37.1	37.7	42.2





MAXIMUM HEIGHT

MAXIMUM LENGTH

BODY WIDTH

11'10"

43'6"

100"

 REVISED:
 CRL
 DATE:
 02-06-2020 (R-05)

 REVISED:
 TAA
 DATE:
 06-13-2019 (R-04)

PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ROSENBAUER ANY REPRODUCTION IN PART OR AS WHOLE WITHOUT THE WRITTEN PERMISSION OF ROSENBAUER IS PROHIBITED.

NOTES: 1. OVERALL HEIGHT IS IN LOADED CONDITION. UNLOADED HEIGHTS MAY BE 4" ABOVE HEIGHTS SHOWN.

- 2. DO NOT SCALE DRAWING.
- 3. ALL DIMENSIONS ARE APPROXIMATE AND SUBJECT TO ENGINEERING CHANGES.
- 4. DRAWING MAY OR MAY NOT SHOW ALL ITEMS AS DESCRIBED IN THE WRITTEN DETAIL SPECIFICATIONS.
- 5. INCLUSION OF AN ITEM ON THE DRAWING DOES NOT CONSTITUTE INCLUSION OF THAT ITEM WITH THE FINAL DELIVERED UNIT.

MOUNTAIN VIEW APPROVED BY: CHASSIS: ROSENBAUER R7011 LP

PUMP: HALE QMAX 1750 GPM

TANK: POLY 300

AERIAL: 109' VIPER

TYPE: AERIAL



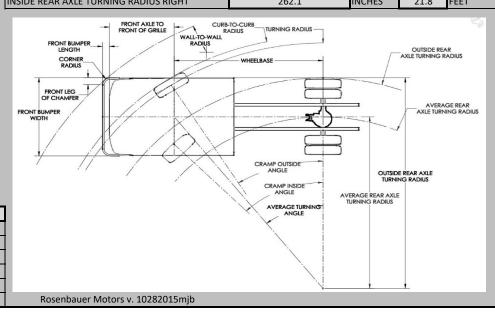
ROSENBAUER EXT

P7153 05

TURNING	RADIUS CALCULA	TIONS BA	SED ON AVERAGE OF INNER AND OUTER FRONT WHEEL CRAMP ANGI	LES
INPUT DESCRIPTION	INPUT VALUE	OUTPUT DESCRIPTION OUTPUT VALUE	UNIT	
VIN	Mountainview Viper M125	32	AVERAGE TIRE TURNING ANGLE LEFT 39.7	DEGF
WHEELBASE	260	INCHES	AVERAGE TIRE TURNING ANGLE RIGHT 39.7	DEGF
FRONT AXLE	SteerTek 23K LP		AVERAGE REAR AXLE TURNING RADIUS LEFT 313.1	NCH
FRONT AXLE KPI	70.87	INCHES	AVERAGE REAR AXLE TURNING RADIUS RIGHT 313.1	NCH
FRONT AXLE TRACK	95.01	INCHES	OUTSIDE REAR AXLE TURNING RADIUS LEFT 364.1	NCH
FRONT TIRE	GY G296 WHA 425/65R22.	.5	OUTSIDE REAR AXLE TURNING RADIUS RIGHT 364.1	NCH
FRONT TIRE OVERALL WIDTH	16.3	INCHES	INSIDE REAR AXLE TURNING RADIUS LEFT 262.1	NCH
FRONT WHEEL	Alcoa 12.25 X 22.5 Al		INSIDE REAR AXLE TURNING RADIUS RIGHT 262.1	NCH
FRONT WHEEL INSET	4.68	INCHES		
FRONT AXLE TO FRONT OF GRILL	79.37	INCHES	FRONT AXLE TO CURB-TO-CURB RADIUS TURNING RADIUS WALL-TO-WALL	
FRONT BUMPER LENGTH	18	INCHES	FRONT BUMPER RADIUS	
FRONT BUMPER WIDTH	102	INCHES	CORNER WHEELBASE -	
FRONT BUMPER CORNER RADIUS (R) OR			NALIUS .	
CHAMFER (C)?	С		FRONTLEG	
FRONT BUMPER CORNER CHAMFER			OF CHAMFER	_
FRONT LEG	4.8125	INCHES	FRONT BUMPER WIDTH	
LEFT TURN CRAMP INSIDE ANGLE	43	DEGREES		3
LEFT TURN CRAMP OUTSIDE ANGLE	36.41	DEGREES		
RIGHT TURN CRAMP INSIDE ANGLE	43	DEGREES	CRAMP OUTSIDE	
RIGHT TURN CRAMP OUTSIDE ANGLE	36.41	DEGREES	ANGLE	

OUTPUT DESCRIPTION	OUTPUT VALUE	UNITS		UNITS
TURNING RADIUS LEFT	444.6	INCHES	37.0	FEET
TURNING RADIUS RIGHT	444.6	INCHES	37.0	FEET
CURB-TO-CURB RADIUS LEFT	452.7	INCHES	37.7	FEET
CURB-TO-CURB RADIUS RIGHT	452.7	INCHES	37.7	FEET
WALL-TO-WALL RADIUS LEFT	506.8	INCHES	42.2	FEET
WALL-TO-WALL RADIUS RIGHT	506.8	INCHES	42.2	FEET

OUTPUT DESCRIPTION	OUTPUT VALUE	UNITS		UNITS
AVERAGE TIRE TURNING ANGLE LEFT	39.7	DEGREES		
AVERAGE TIRE TURNING ANGLE RIGHT	39.7	DEGREES		_
AVERAGE REAR AXLE TURNING RADIUS LEFT	313.1	INCHES	26.1	FEET
AVERAGE REAR AXLE TURNING RADIUS RIGHT	313.1	INCHES	26.1	FEET
OUTSIDE REAR AXLE TURNING RADIUS LEFT	364.1	INCHES	30.3	FEET
OUTSIDE REAR AXLE TURNING RADIUS RIGHT	364.1	INCHES	30.3	FEET
INSIDE REAR AXLE TURNING RADIUS LEFT	262.1	INCHES	21.8	FEET
INSIDE REAR AXLE TURNING RADIUS RIGHT	262.1	INCHES	21.8	FEET



DEFINITIONS

INPUT DESCRIPTION		UNITS		RAGE OF INNER AND OUTER FRONT W TOUTPUT DESCRIPTION	OUTPUT VALUE	UNITS		UNITS
VIN	IFS 205 WB 48° Cramp	UNITS	_	AVERAGE TIRE TURNING ANGLE LEFT		DEGREES		UNITS
		INCHES	_		43.5	DEGREES		
WHEELBASE FRONT AXLE	205 IFS20	INCHES	_	AVERAGE TIRE TURNING ANGLE RIGHT AVERAGE REAR AXLE TURNING RADIUS LAFT	43.5 216.4	INCHES	18.0	FEET
FRONT AXLE	71.48	INCHES	4	AVERAGE REAR AXLE TURNING RADIUS RIGHT	216.4	INCHES	18.0	FEET
		INCHES	4	OUTSIDE REAR AXLE TURNING RADIUS LEFT	267.4	INCHES	22.3	FEET
FRONT TIRE	XZY3 425/65R22.5	INCHES	-	OUTSIDE REAR AXLE TURNING RADIUS RIGHT	267.4	INCHES	22.3	FEET
FRONT TIRE OVERALL WIDTH	16.6	INCHES	-	INSIDE REAR AXLE TURNING RADIUS LEFT	165.4	INCHES	13.8	FEET
FRONT WHEEL	Accuride 12.25 X 22.5 Al	INCHES	+	INSIDE REAR AXLE TURNING RADIUS RIGHT	165.4	INCHES	13.8	FEET
FRONT WHEEL INSET	4.75	INCHES	+	INSIDE REAR AXEE TORINING RADIOS RIGHT	103.4	INCHES	13.0	FEET
FRONT AXLE TO FRONT OF GRILL	79.37	INCHES	+	FRONT AXLE TO CURL-TO PRONT OF GRILLE	O-CURBTURNING RADIUS			6
FRONT BUMPER LENGTH	18	INCHES	+	FRONT BUMPER RADIUS	IOS / IOM III O IO IOO	\ \		
FRONT BUMPER WIDTH	102	INCHES	+	LENGTH CORNER	X		OUTSIDE RE	AR RADIUS
FRONT BUMPER CORNER RADIUS (R) OR	102	INCITES	+	RADIUS	WHEELBASE			
CHAMFER (C)?	R							
()			†	FRONT LEG OF CHAMFER	X)		
FRONT BUMPER CORNER RADIUS	9	INCHES		FRONT BUMPER WIDTH				NGE REAR NING RADIUS
LEFT TURN CRAMP INSIDE ANGLE ———	48	DEGREES	1					
LEFT TURN CRAMP OUTSIDE ANGLE ——	38.9	DEGREES	1)		
RIGHT TURN CRAMP INSIDE ANGLE	48	DEGREES)		
RIGHT TURN CRAMP OUTSIDE ANGLE	38.9	DEGREES	1		CRAMP OU SIDE ANGLE	OUTSIDE	REAR AXLE	
			-		CRAMP INSIDE	TURNIN	G RADIUS	
						AVERAGE REAR AXLE TURNING RADIUS		
OUTPUT DESCRIPTION	OUTPUT VALUE	UNITS	UNITS	/ / /	AVERAGE TURNING ANGLE			
TURNING RADIUS LEFT ————————————————————————————————————	334.3	INCHES	27.9 FEET	1 / / /				
TURNING RADIUS RIGHT	334.3	INCHES	27.9 FEET					
CURB-TO-CURB RADIUS LEFT —————	342.6	INCHES	28.6 FEET					
CURB-TO-CURB RADIUS RIGHT	342.6	INCHES	28.6 FEET	//				
WALL-TO-WALL RADIUS LEFT ————	399.9	INCHES	33.3 FEET		11		<u> </u>	
WALL-TO-WALL RADIUS RIGHT	399.9	INCHES	33.3 FEET	Rosenbauer Motors v. 10282015mib				

DEFINITIONS

Wall-to-Wall: Half the minimum distance between two parallel walls that the truck can just make a full circle within. The outside corner of the bumper would just be grazing the walls. The front axle to grille, grille to front of bumper, width of bumper, radius or chamfer on bumper corners, and, of course wheelbase, cramp angle and track all influence this number.

Curb-to-Curb: Half the minimum distance between two parallel curbs that the truck can just make a full circle within. The outside of the outer front tire would just be grazing the curbs. The bumper would be overhanging beyond the curbs. Wheelbase, cramp angle and track all influence this number.

Turning Radius: The radius followed by the centerline of the outside tire.

Outside Rear Turning Radius: The radius of the curve formed by the outermost portion of the outside single or dual tire(s).

Inside Rear Turning Radius: The radius of the curve formed by the outermost portion of the inside single or dual tire(s). It represents the smallest radius island curb the rear tires just clear when turned all the way to the stop.

Cramp Angle: The number of degrees the front wheel end turns from straight ahead to either full left or full right before hitting the axle steering stop. Angle is as viewed from above.

Wheelbase: Dimension from the center of the front axle to the center of the rear axle or to the center of the rear tandem or tridem group.

Track (Track Width): Center of tire to center of tire left to right. For duals, the track is the dimension from the plane at the mounting surface between the two wheels on one side to the same on the other side.

Inset (front wheel or inner wheel of a dual assembly): The distance between the center of the tire/rim to the mounting face of the wheel (inner part of the wheel center).

Front Axle KPI: Kingpin Intersection—distance between the intersection of the kingpin axis and the wheel spindle axis from left to right. To get the track width, add the Front Axle KPI to the dimension between the KPI point and the mounting face of the hub for each wheel end minus the wheel inset for each wheel.

KPI: Kingpin Inclination. Angle of the steering pivot at the wheel end with a vertical plane parallel to the center of the chassis. Not used for the turning radius calculation.