



DATE: October 5, 2021

ITEM #:

TO: City Council

FROM: Dustin Kalis, Fire Chief

AGENDA ITEM: Purchase CIP Project F-011 - Engine 1 Replacement

REVIEWED BY: Kristina Handt, City Administrator

Sam Magureanu, Finance Director

BACKGROUND:

The Fire Department is requesting to purchase one new fire engine and equipment as part of the department's vehicle replacement program. The 2021-2025 Capital Improvement Plan included the replacement of Engine 1 in 2021. This purchase will replace our current Engine 1 purchased in 1997.

The new engine is scheduled for replacement in our 2021 CIP consistent with our established vehicle replacement program. This was originally budgeted as a 2022 CIP purchase but due to the significant maintenance issues, vehicle deficiencies and length of replacement build time, this purchase was moved up to 2021. The vehicle being replaced will be sold upon the arrival of the new engine.

The Fire Department is also seeking approval to utilize the HGAC Cooperative Purchasing Program (HGACBuy) for this purchase. This cooperative purchasing program allows the City of Lake Elmo purchasing opportunities at a reduced cost avoiding the formal bidding process. This allows the fire department to work directly with a specific manufacturer to assure we are purchasing the best apparatus that will meet the needs and demands of the fire department while assuring financial value. This process is compliant with Minnesota State Statutes and the City of Lake Elmo Purchasing Policy. This process has been used for the previous purchases of Ladder 1, Rescue 1 and Tender 1. The cities current contract with HGACBuy expires December 31, 2021.

ISSUE BEFORE COUNCIL:

Whether or not to authorize the City Administrator to enter into contract for replacement of Engine 1 as structured with Rosenbauer Minnesota, LLC, utilizing HGACBuy cooperative purchasing program as well as the associated equipment and equipment mounting costs not to exceed \$730,000.

PROPOSAL DETAILS/ANALYSIS:

Proceeding with this purchase will benefit the city and its citizens with an updated first due firefighting engine that is purpose designed as an emergency response vehicle and will provide

better features for the purpose of emergency response, responder safety and equipment storage.

The fire department replaces vehicles on a rotating basis based on each individual vehicles need. The engine will be utilized by all fire department staff to respond to emergency incidents 24 hours a day 365 days per year to provide critical response capabilities to our city. This vehicle is expected to be in service for 20 years.

FISCAL IMPACT:

The cost of this vehicle and necessary equipment is \$730,000. Budgeted in the fire department's 2021 CIP, is an amount of \$650,000. The initial \$650,000 project amount was set during the 2020 budget process. Since that time increases in vendor pricing, tariff surcharges, raw materials and supplied equipment has caused the \$80,000 increase in project amount.

Rosenbauer Commander chassis and body per specifications: \$715,471.00

Chassis early payment deduction: \$-11,305.00

Chassis and body total: \$704,166.00

Loose tools, equipment, miscellaneous costs: \$25,834.00

Engine 1 Replacement Project Total: \$730,000.00

The price increase in relation to the Vehicle Replacement Fund will not significantly impact the fund balance or its ability to support future scheduled expenditures.

Bellow you will find a summary of the scheduled revenues and expenditures for the following ten years and projected fund balance for the Vehicle Replacement Fund. The 2021 expenditures have been adjusted for the proposed increase. Note that the updated proposed schedule of revenues assumes the tax rate is 2% or greater increase in the tax rate each year after that, except 2029-2031 flat rate.

<i>Schedule of Revenues and Expenditures</i>			
Year	Revenue	Expense	Fund Balance
2020	\$1,051,228	\$596,409	\$1,716,283
2021	\$260,746	\$1,067,326	\$909,703
2022	\$150,000	\$396,000	\$663,703
2023	\$175,000	\$604,500	\$234,203
2024	\$270,500	\$228,000	\$276,703
2025	\$363,500	\$67,000	\$573,203
2026	\$200,000	\$65,000	\$708,203
2027	\$332,000	\$1,020,000	\$20,203
2028	\$509,000	\$0	\$529,203
2029	\$693,000	\$365,000	\$857,203
2030	\$936,000	\$0	\$1,793,203
2031	\$660,000	\$30,000	\$2,423,203

OPTIONS:

- 1) Approve the purchase of one new Engine and equipment.
- 2) Deny purchase.

RECOMMENDATION:

Motion: "To approve purchase of 2021 CIP Project, F-011 Engine 1, from Rosenbauer Minnesota, LLC, as well as the associated equipment and equipment mounting at a cost not to exceed \$730,000".

ATTACHMENTS:

1. HGAC Pricing Purchase Order (Contact FS12-19 For Years 2019-2021)
2. Truck Drawing
3. Truck Body Specifications
4. Truck Chassis Specifications



PURCHASE ORDER

Purchaser		SUPPLIER	
Purchaser:	City of Lake Elmo	Contract #	FS12-19 For Years 2019-2021
Address 1:	3800 Laverne Ave N	Supplier:	Rosenbauer Minnesota, LLC
Address 2:		Address 1:	5180 260th Street
City, State, Zip:	Lake Elmo, MN 55042	Address 2:	PO Box 549
		City, State, Zip:	Wyoming, MN 55092

Purchase Order Number:		Delivery in Calendar Days:	395
Date:	9/29/2021	HGAC Product Code	FS19YC05

Quantity	Description	Price	Price (Extended)
1	One (1) Rosenbauer Pumper, complete with Rosenbauer Commander chassis per attached specifications.	\$715,471.00	\$715,471.00
	Note: HGAC administration fee included in price		
*Note: If chassis amount of \$294,426.00 is paid upon arrival at our plant in Minnesota, deduct \$11,305.00 each			
TOTAL			\$715,471.00

NOTES:	
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Rosenbauer Dealer :	General Safety Fire Apparatus
Salesperson:	Steve Harris
Signature:	

Purchaser:	City of Lake Elmo
Print Name:	
Title:	
Date	
Signature:	



APPENDIX C CHANGE ORDER POLICY

This change order policy is intended to reflect the increased cost of changes which result in delayed deliveries, confused paperwork, poor production flow and increased potential of trucks being built to incorrect specifications. With your cooperation, changes can be kept to a minimum which means we will be able to reduce lead times, increase production and maintain costs which will benefit all of us.

Our objective is accurate, high quality and on-time deliveries exceeding our customer expectations.

Changes any time after the order is received may delay the quoted delivery date. Significant design or component changes will have the largest impact on the schedule and quoted delivery date. Changes that occur later in the process will also have the largest impact on the schedule and quoted delivery date.

All time fences are reference to contract execution date if not otherwise stated.

Change Window #1

All changes will be priced at standard pricing and specials will be priced through our normal process. Significant changes made to the vehicle during this time period may result in a delivery extension.

RBM Chassis	0-60 days
RBA Aerial	0-60 days
Rosenbauer Body	0-60 days

Change Window #2

All changes are subject to a 25% mark-up, as well as a \$250.00 change order processing fee. All changes are subject to factory review and may be denied due to engineering or lead time issues.

RBM Chassis	61-75 days
RBA Aerial	61-75 days
Rosenbauer Body	61-120 days

Change Window #3

All changes are subject to a 50% mark-up, and 50% restocking fee on deleted items, as well as a \$250.00 change order processing fee. All changes are subject to factory review and may be denied due to engineering or lead time issues. No major components can be changed at this time; major components are considered engine, transmission, axles, suspension, cab, frame (wheelbase), seats, water pump and water tank.

RBM Chassis	76-120 days
RBA Aerial	76-120 days
Rosenbauer Body	121-180 days

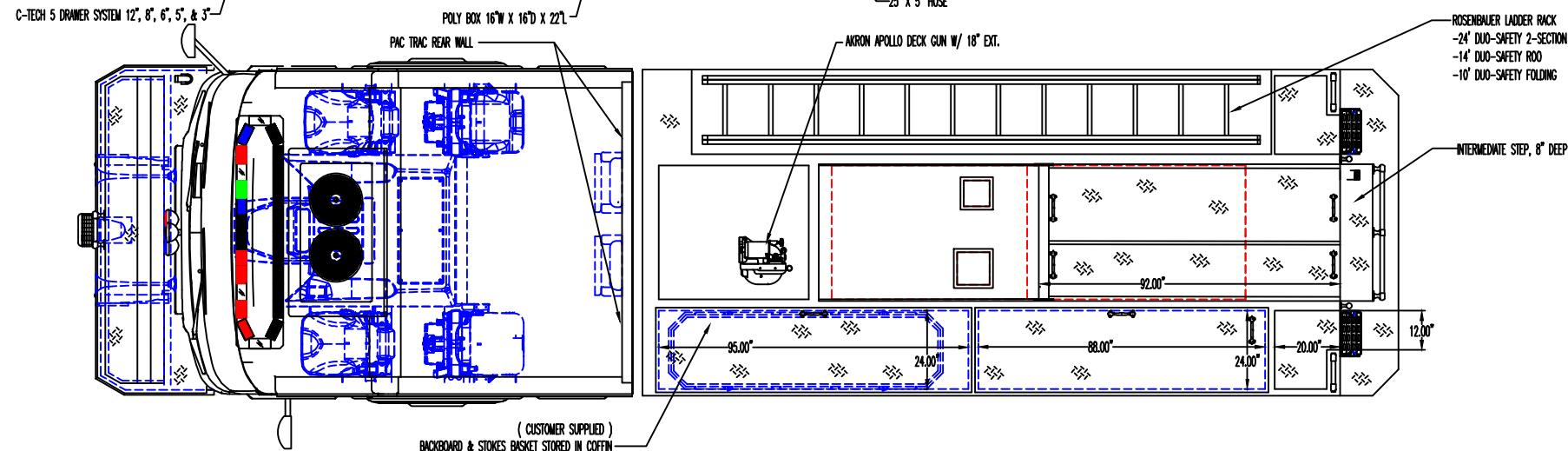
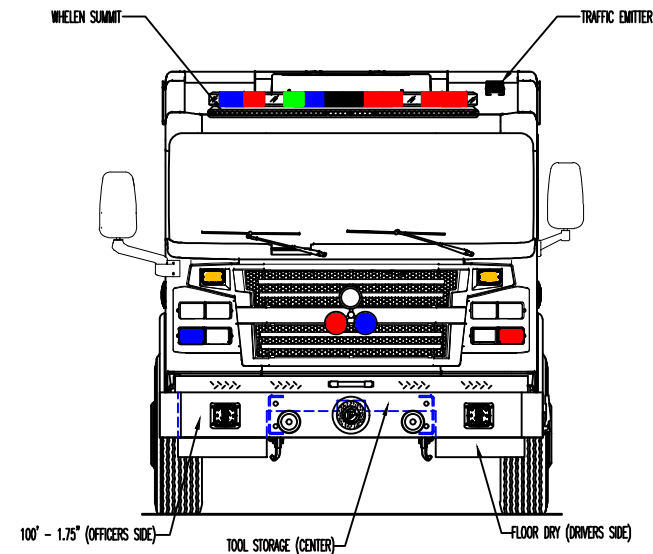
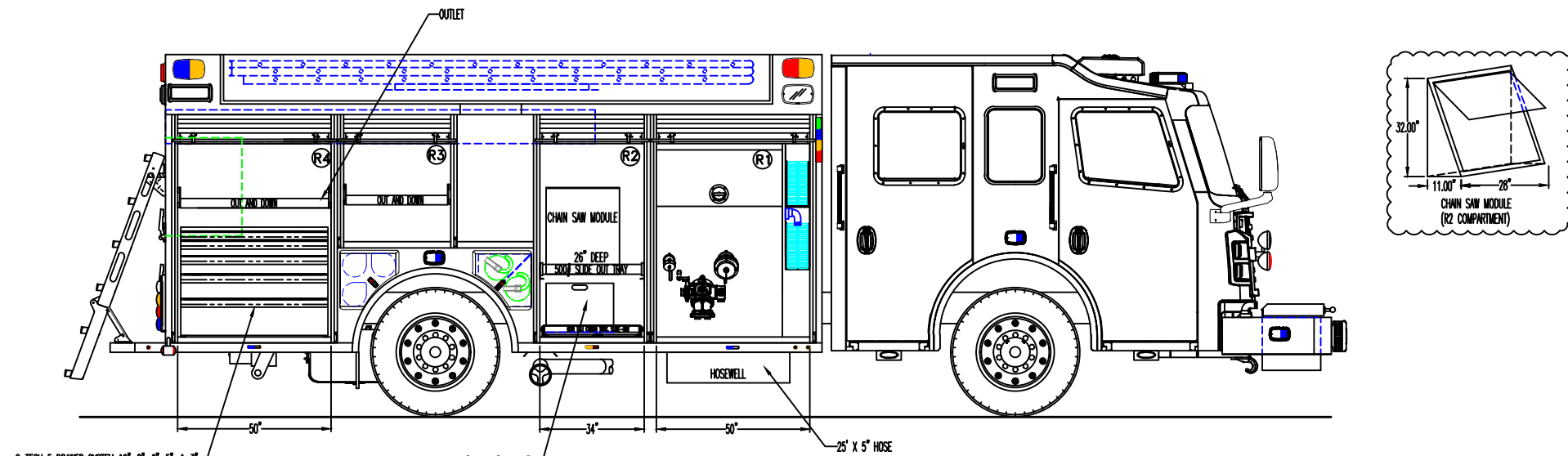
Change Window #4

Changes are not recommended at this time. Any changes requested will be priced on a time and material basis, as well as a \$500.00 change order processing fee. Any changes requested, and that are quoted to the customer, must be approved by the customer within three days or they will not be valid.

RBM Chassis	After 120 days
RBA Aerial	After 120 days
Rosenbauer Body	After 180 days

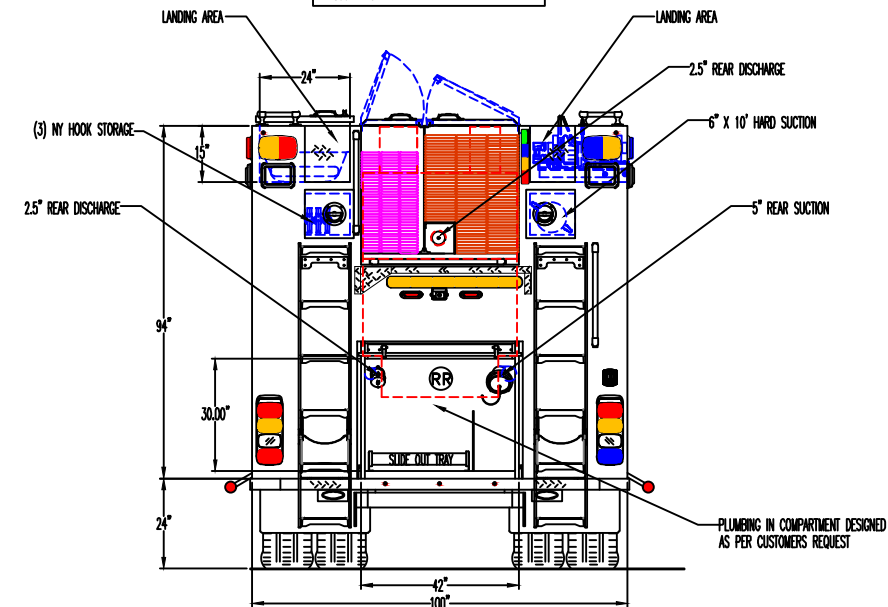
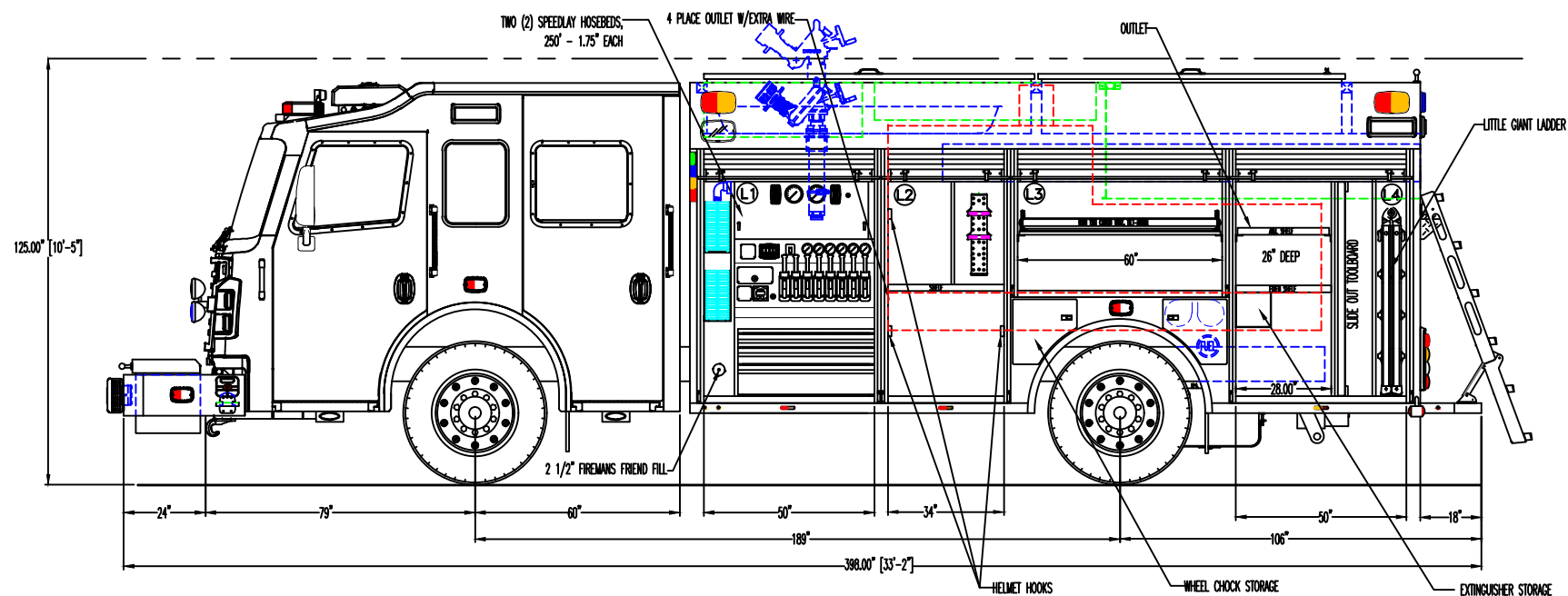
**Note: Any late change orders that are factory driven will be done at cost and no additional mark up or penalties will apply.*

BUYER INITIALS: _____



COMPARTMENT DIMENSIONS				
LOCATION	WIDTH	HEIGHT	DEPTH	VOLUME IN CUBIC FEET
L1	50	63	12	21.9
L2	34	63	26	32.2
L3	60	32	26	28.9
L4	50	63	26	47.4
R1	50	63	12	21.9
R2	34	63	26	32.2
R3	40	32	26	19.3
R4	50	63	26	47.4
RR	42	30	24	17.5

MAIN HOSEBED CAPACITY: LEFT TO RIGHT
- 600' - 2.5"
- PRECONNECTED 200' - 2.5"
- 800' - 5"



- NOTES:
- OVERALL HEIGHT IS IN LOADED CONDITION. UNLOADED HEIGHTS MAY BE 4" ABOVE HEIGHTS SHOWN.
 - DO NOT SCALE DRAWING.
 - ALL DIMENSIONS ARE APPROXIMATE AND SUBJECT TO ENGINEERING CHANGES.
 - DRAWING MAY OR MAY NOT SHOW ALL ITEMS AS DESCRIBED IN THE WRITTEN DETAIL SPECIFICATIONS.
 - INCLUSION OF AN ITEM ON THE DRAWING DOES NOT CONSTITUTE INCLUSION OF THAT ITEM WITH THE FINAL DELIVERED UNIT.

REVISED: CRL DATE: 09-23-2021 (R-07)
REVISED: JMV DATE: 08-19-2021 (R-06)
REVISED: JMV DATE: 07-29-2021 (R-05)
DRAWN: CRL DATE: 06-07-2021 (7032-09)

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

APPROVED BY:

MAXIMUM HEIGHT
MAXIMUM LENGTH
BODY WIDTH

N/A
N/A
100"

CHASSIS: ROSENBAUER R6011
PUMP: ROSENBAUER N1250 PTO
TANK: 900 / 20 (FOAM)
TYPE: PUMPER
AERIAL: N/A

-PROPOSED-
LAKE ELMO



ROSENBAUER EXT

JOB NUMBER
-
DRAWING NUMBER
P8099
REV
07

QUOTATION

General Safety Fire Apparatus

LAKE ELMO 2022 FORMAL ENGINE BODY SPECS

Exp. Date: 10/28/2021
Quote No: 10098-0099
09/29/2021

Page 1

PART NO	S	QTY	DESCRIPTION
		1	== EXT Xfire Bid Prep Forms - 4102.020 03/01/21 ==
00-00-0120	>	1	-- CONFIGURATION ID: 2021B-XXXXX
00-00-0100	S	1	BODY DESIGN PRICE ADJUSTMENT
00-00-1300		1	Fire Department Name
00-00-1499		1	Overall Height Restriction, NONE
00-00-1509		1	Overall Length Restriction, NONE
00-00-1519		1	Overall Width Restriction, NONE
00-00-1529		1	Wheelbase Restriction, NONE
00-00-1539		1	Angle of Approach, NFPA Minimum, 8 Degrees
00-00-1549		1	Angle of Departure, NFPA Minimum, 8 Degrees
		1	NFPA Equipment Allowances
00-00-1610		1	NFPA Pumper Equipment Allowance 2500#
00-00-3220		1	Contract Change Notice
00-12-1100		1	Financial Stability Response
01-06-0560	>	1	Electronic Stability Control
02-02-0200	>	1	Pre-Construction Conference At Mfg.
02-02-0300	>	1	Inspctn Trip
02-03-0100		1	Quality Control (ISO Compliance)
		1	== EXT Xfire Warranties-BR - 4102.020 03/01/21 ==
01-16-0150	>	1	-- Warranty, Apparatus, Body Warranty, 1 Year
01-19-0460		1	-- Warranty, Bdy, Alum, Life-Time, Transferable
01-19-2450		1	-- Warranty, Subframe, Lifetime Alum, Transferable
01-20-0360		1	-- Warranty, Paint, PPG, 10 Years, EXT
01-21-0150		1	-- Warranty, Lettering and Striping, 1 Year
01-17-0870		1	-- Pump Warranty, Rosenbauer, 5 Year
02-14-6250		1	Plmbg Warranty, Stnls Stl, 10 Years
01-33-5400		1	-- Manuals, Electrical , As Built Body, Digital Copy
02-90-0500	>	1	Chassis, Commander Cstm
		1	== EXT Xfire - DC Elec System COMMANDERS ONLY - 4102.020 03/01/21 ==
56-01-1300	S <	1	-- Siren, Whelen CCT6 CenCom CORE Siren Whelen CCT6 CenCom Siren. Also see 57-03-7500 for CenCom CORE-R Controller.
56-02-1600		2	-- Spkr, F-S Dynamax, ES100C 100 Watt
56-02-1650	<	2	-- Spkr Grille, Stnls Stl, "R" Flat Black
56-03-1400		2	-- Spkr Lctn, Bumper, Rcscd, One Ea Side
56-06-0400	< >	1	-- Siren, F-S, Q2B, Mech, Bumper, Partially Rcscd, Center Q2B-01NNSD Disable unless E Master is active
56-07-1600		1	-- Siren Cntrl, F-S, Q2B, Driver's Horn Ring
56-07-1400	S <	1	-- Siren Cntrl, F-S, Q2B, Officer's Side Foot Swtch On angled portion of engine tunnel next to officer

PART NO	S	QTY	DESCRIPTION
56-07-1200	S <	1	-- Siren Brake, F-S, Q2B, Officer's Side Foot Switch Style Foot switch style button. On angled portion of engine tunnel next to officer
	S <	1	XFIRE - CAB LIGHTBARS - UPPER ZONE A - WHELEN All warning lights (except RotaBeam Lightbar, which cannot be integrated with CORE) to be controlled with Whelen CORE system, see 57-03-7500. ALL Warning Lightheades to be ordered as STEADY BURN. Flash Patterns to be controlled by CORE system. Sync (2) pairs of forward facing light heads and (1) pair of intersectors. Phase blues and reds together opposite whites. Phase 1 - Whites Phase 2 - Blue and Reds
57-02-1152	S < >	1	-- Lt Bar, Whelen, Ultra Freedom IV LED, 81", RotaBeam, Custom 81" Whelen Freedom IV, RotaBeam Lightbar. Layout.pdf attached here. WeCad file in P7543folder. Officer Side to Driver Side Fully Populated Bar as follows: Clear alley, blue rota corner, red rota, clear, green, blue rota, clear rota, red rota, red, clear, red rota, red rota corner, clear alley Customer/Dealer are aware that RotaBeam Lightbar will NOT integrate with CenCom CORE system. Auto-Dim, Sync, etc is N/A for RotaBeam Lightbar.
57-08-1210	S < >	1	-- Trffc Emtr, GTT Opticom, Roof Mntd, Wired to Park Brake Emitter to be be strobe honeycomb style external roof mounted emitter. Same model as was supplied with Lake Elmo #14674. - - Mounted to the driver side of the cab roof . - Wired to be on with master warning and off with park brake
57-03-7500	U <	1	-- Whelen CenCom CORE-R, Warn Lt Multiplex System, Auto-Dim Whelen CenCom CORE-R system, Also includes: (Qty 2) CORE Expansion Modules, Whelen p/n CEM8 (Qty 1) Traffic Advisor Module, Whelen p/n CTA (Qty 1) V2V Sync Module, Whelen p/n CV2V This Job will also require a stand-alone Optical Sensor (P/N TBD), as that is N/A with RotaBeam Lightbar.
57-10-0100		1	-- Lightbar Cntrl, with Vista E-Master & Virtual Switch
58-03-6199		1	-- Turn Signals, Upper Wing Position, Chassis Supplied
58-03-7320		1	-- Wrn Lts, Whelen, Inbrd Warn Lt, (2) 6RB Rota-Beam LED
57-20-5006		1	-- Wrn Lt, Drvr, Whelen, 6RB Clear LED, Clear Lens, Ea
57-20-5007		1	-- Wrn Lt, Offcr, Whelen, 6RB Clear LED, Clear Lens, Ea
58-03-7420		1	-- Wrn Lts, Whelen, Outboard Warn Lt, (2) 6RB Rota-Beam LED
57-20-5000		1	-- Wrn Lt, Drvr, Whelen, 6RB Red LED, Clear Lens, Ea
57-20-5003		1	-- Wrn Lt, Offcr, Whelen, 6RB Blue LED, Clear Lens, Ea
58-09-2000		1	-- Wrn Lts, Whelen, Intrsct (2) M6 LED
57-20-1218	<	1	-- Wrn Lt, Drvr, Whelen, M6, Split Red/Clear LED, Clear Lens, Ea Red forward

PART NO	S	QTY	DESCRIPTION
57-20-1221	<	1	-- Wrn Lt, Offcr, Whelen, M6, Split Blue/Clear LED, Clear Lens, Ea Blue forward
58-01-2140		2	-- Flange, Chrome, Wrn Lt, Whln, M6, Ea
58-16-2100		1	-- Wrn Lts, Whelen, Lwr Mid Chassis (2) M6 LED
57-20-1218	<	1	-- Wrn Lt, Drvr, Whelen, M6, Split Red/Clear LED, Clear Lens, Ea Red forward
57-20-1221	<	1	-- Wrn Lt, Offcr, Whelen, M6, Split Blue/Clear LED, Clear Lens, Ea Blue forward
58-01-2140		2	-- Flange, Chrome, Wrn Lt, Whln, M6, Ea
58-26-2600		3	-- Wrn Lts, Whelen, Low Mid Bdy (2) ION LED
57-20-7106	<	3	-- Wrn Lt, Drvr, Whelen, ION Red/Clear LED, Clear Lens, Ea Three (3) ION Duo lights, located as follows: below L1 as per drawing and below L2 and L4 as per drawing.
57-20-7107	<	1	-- Wrn Lt, Offcr, Whelen, ION Red/Clear LED, Clear Lens, Ea One (1) ION Duo light, located as follows: red/white below R2 as per drawing.
57-20-7103	S <	2	-- Wrn Lt, Offcr, Whelen, ION Blue/Clear LED, Clear Lens, Ea Two (2) ION Duo lights, located as follows: blue/white below R1 and R4 per drawing.
58-36-2000	S <	1	-- Wrn Lts, Whelen, Over Rr Wheels (2) M6 LED Mid Body, Over Rr Wheels, M6
57-20-1218		1	-- Wrn Lt, Drvr, Whelen, M6, Split Red/Clear LED, Clear Lens, Ea
57-20-1221		1	-- Wrn Lt, Offcr, Whelen, M6, Split Blue/Clear LED, Clear Lens, Ea
58-01-2140		2	-- Flange, Chrome, Wrn Lt, Whln, M6, Ea
58-46-2100		1	-- Wrn Lts, Whelen, Upper Side Front (2) M9 LED
57-20-1428	<	1	-- Wrn Lt, Drvr, Whelen, M9, Split Red/Amber LED, Clear Lens, Ea Red forward
57-20-1429	<	1	-- Wrn Lt, Offcr, Whelen, M9, Split Red/Amber LED, Clear Lens, Ea Red forward
58-01-2181		2	-- Flange, Black, Wrn Lt, Whln, M9, Ea
58-61-2100		1	-- Wrn Lts, Whelen, Upper Side Rr (2) M9 LED
57-20-1428	<	1	-- Wrn Lt, Drvr, Whelen, M9, Split Red/Amber LED, Clear Lens, Ea Amber forward
57-20-1433	<	1	-- Wrn Lt, Offcr, Whelen, M9, Split Blue/Amber LED, Clear Lens, Ea Blue/Amber. Amber forward
58-01-2181		2	-- Flange, Black, Wrn Lt, Whln, M9, Ea
58-71-1772		1	-- Wrn Lts, Whelen, Upper Rr (2) M9 LED
57-20-1428	S <	1	-- Wrn Lt, Drvr, Whelen, M9, Split Red/Amber LED, Smoked Lens, Ea Amber outboard as per drawing Smoked lens
57-20-1429	S <	1	-- Wrn Lt, Offcr, Whelen, M9, Split Blue/Amber LED, Smoked Lens, Ea Blue/Amber. Amber outboard as per drawing Smoked lens
58-01-2180		2	-- Flange, Chrome, Wrn Lt, Whln, M9 Ea
58-81-2500		1	-- Wrn Lts, Whelen, Low Rr (2) 6RB Rota-Beam LED

PART NO	S	QTY	DESCRIPTION
57-20-5000		1	-- Wrn Lt, Drvr, Whelen, 6RB Red LED, Clear Lens, Ea
57-20-5003		1	-- Wrn Lt, Offcr, Whelen, 6RB Blue LED, Clear Lens, Ea
50-08-1002	>	1	Elecal, Base, Multi-Plex, Weldon V-MUX Bdy, XFIRE
55-11-1100	>	1	-- Dr Open/Hazard Wrn Lt, w/Chassis
55-13-1060	>	1	-- V-MUX Dr Open, Isolation, Body Main Cmpt Doors, On Vista Screen
55-14-1100	S <	1	-- Dr Open/Hazard Wrn Alarm, Override An open door and seat belt alarm override switch is to be installed in the Vista displays (not on home screen). It is to be labeled "Warning Alarm Disable" and it is to momentarily deactivate the warning light and audible alarm. It is to re-set to ON when the Park Brake is set.
50-12-1092	>	1	Swch Panel, Multiplex, Chassis Supplied
50-15-3100		1	Battery Swch, Mstr Disconnect , Chs Sppld
50-15-5100		1	Battery Chrgr, Chs Supl'd
50-41-6100	>	1	Air Horns (2) 24" Round Grover Stutter Tone
50-41-8150		1	Air Horn Location (2) Recess Mounted, Inboard, 1 Ea Side
50-43-1000		1	Air Horn Cntrl
50-43-2200	< >	1	-- Air Horn Cntrl, Officer, Sgle Ft Swch On angled portion of engine tunnel next to officer only. No Driver's side control is intentional.
51-05-6290		1	Lt, Engine Cmpt, Chassis Supl'd
51-05-7304		2	Lt, Pump Cmpt, OSS Access, 48" LED Tube Lt, (1)
51-05-9100	>	1	-- Lt Swch , Pump Panel
52-01-1100		1	Back Up Alarm, w/Chassis
52-02-1110	<	1	Back Up Camera, Install Chassis Supl'd, EXT --The back-up cameras (driver side, officer side and rear) are to feed to driver and officer Vista displays.
52-08-1009		1	-- Hand Lights, NFPA Compliance - Spl'd/Instl'd by DEPT
53-01-1200	S <	1	Marker Lts, LED, DOT Requirements Omit outboard rear facing and side facing rearward lower marker lights. These are covered by the Britax marker lights.
53-01-3000		1	Marker Lts, Flex Arm, Britax, Pair
53-03-0065		1	Whelen Rr DOT LED Ltng Pkg M6
53-03-2752		1	-- Tail/Brake Lts, Whelen, LED, M6, Clear Lens (Pair)
53-03-3250	S <	2	-- Add'l Tail/Brake/Warn Lt, Whelen, LED, LINZ6 (1) There shall be two (2) total additional red combination Whelen LINZ6 LED tail/brake light provided on the rear of the apparatus below the intermediate step. They shall also be wired (via CenCom CORE) to act as warning lights but will act as brake lights when the brakes are applied.
53-04-2752		1	-- Turn Signals, Whelen, LED w/ Arrow, M6, Clear Lens (Pair)
53-06-3550		1	-- Backup Lts, Whelen, LED, M6 (Pair)
53-07-1110		1	-- Tail Lt Bezel, 3 Lts, Whln M6 Chrome (Pair)
53-05-1800	<	1	Turn Signals, Mid Bdy, LED Marker Lt (Pair) >>Rearward of forward most lon warning lights in rub rail

PART NO	S	QTY	DESCRIPTION
54-01-1220		1	-- Ground Lts, Frt Bumper, LED, Whelen 3SC0CDCR, Pair
54-02-1100		1	-- Ground Lts, Cab, Supl'd w/Custom Chassis
54-03-1220		1	-- Ground Lts, Pump Panel, LED, Pr Whelen 3SC0CDCR
54-03-1420		1	-- Ground Lts, Mid Body, LED, Whelen 3SC0CDCR, Pair
54-03-1620		1	-- Ground Lts, Rr Step, LED, Whelen 3SC0CDCR, Pair
54-03-1820		1	-- Ground Lts, Bhnd Rr Wheels, LED, Whelen 3SC0CDCR, Pair
54-04-1999		1	-- Lt Swtch , Ground Lts w/ Park Brake
54-10-1490		1	Illumination, Rr Tailboard
54-11-2100		1	Lt Swtch , Step/Wlkwy Lts Wired Park Brake Swtch
54-15-5010		1	Scene Lt Lctn, Front/Cab Brow, XFIRE
54-15-1707	S <	1	-- Whelen 86" Scene Bar Pioneer Summit S86MB Whelen 86" Scene Bar Pioneer Summit S86MB with integrated amber DOT lights Black
54-15-6040	<	3	-- Scene Lt Actvtd, Front Scene, Driver & Officer VISTA Three Mode Switching: Scene, Flood, Spot.
54-15-5110		1	Scene Lt Lctn, Cab, Left Side, XFIRE
54-15-1623		1	-- Scene Lt, Whelen, Pioneer Plus Dual Pnl PCPSM2B LED Srfc Mt, Black
54-15-6300	S <	1	-- Scene Lt Swtch , LH Lts, Wired to Cab Dr Swtches LH Cab Side Pioneer Scene Light + LH Fwd Body M9 Scene Light to activate w/Respective side Cab Door Switches.
54-15-6440	<	1	-- Scene Lt Actvtd, Left Scene, Driver & Officer VISTA Activates Cab Side Pioneer Scene + Fwd Body Side M9 Scene + Rwd Body Side Pioneer.
54-15-5210		1	Scene Lt Lctn, Cab, Right Side, XFIRE
54-15-1623		1	-- Scene Lt, Whelen, Pioneer Plus Dual Pnl PCPSM2B LED Srfc Mt, Black
54-15-6300	S <	1	-- Scene Lt Swtch , RH Lts, Wired to Cab Dr Swtches RH Cab Side Pioneer Scene Light + RH Fwd Body M9 Scene Light to activate w/Respective side Cab Door Switches.
54-15-6540	<	1	-- Scene Lt Actvtd, Right Scene, Driver & Officer VISTA Activates Cab Side Pioneer Scene + Fwd Body Side M9 Scene + Rwd Body Side Pioneer.
54-15-5510		2	Scene Lt Lctn, Bdy, Left Side, XFIRE
54-15-1290	S < >	1	-- Scene Lt, Whelen, M9LZC LED, w/Blk trim ring Forward body scene light is M9. Black Bezel.
54-15-1623	<	1	-- Scene Lt, Whelen, Pioneer Plus Dual Pnl PCPSM2B LED Srfc Mt, Black Rearward scene light is the Whelen Pioneer.
54-15-5610		2	Scene Lt Lctn, Bdy, Right Side, XFIRE
54-15-1290	S < >	1	-- Scene Lt, Whelen, M9LZC LED, w/Blk trim ring Forward body scene light is M9. Black Bezel.
54-15-1623	<	1	-- Scene Lt, Whelen, Pioneer Plus Dual Pnl PCPSM2B LED Srfc Mt, Black Rearward scene light is the Whelen Pioneer.
54-15-5710		1	Scene Lt Lctn, Bdy, Rear, XFIRE
54-15-1611		2	-- Scene Lt, Whelen, Pioneer Plus Sngl Pnl PCPSM1C LED Srfc Mt, Chrome
54-15-6640		1	-- Scene Lt Actvtd, Rear Scene, Driver & Officer VISTA
54-15-6700		1	-- Scene Lt Swtch , Rr Scene Lts, Auto w/ Reverse
54-15-6150	<	2	Scene Lt Swtch , All Lts, Pump Panel Single Rocker Switch to activate ALL Scene Lights; Brow, Cab and Body Sides, Pump Panel and Rear Face.

PART NO	S	QTY	DESCRIPTION
			One (1) to be located at LH PUMP PANEL One (1) to be located at RH PUMP PANEL.
54-15-6100	<	2	Scene Lt Swtch , Cab Switch Panel Single Rocker Switch to activate ALL Scene Lights; Brow, Cab and Body Sides, Pump Panel and Rear Face.
			One (1) to be located on Driver Side Dash BELOW Vista One (1) to be located Officer Side Dash BELOW Vista
58-91-1900	<	1	Traffic Arrow Lt, Whelen, 34" Linear-LED, TANF65 **All Traffic arrow functions will be controlled by the CenCom CORE. >>Active as "warning" light (pattern is "FLASH" when in warning mode) after E-Master is active if control heads remains in "off" position. User will need E-Master on AND control head "on" to take control of pattern (left, right, split etc).
58-95-1400		1	Traffic Arrow Lt Mntg, Surface Mt, Below Intmdt Rr Step
59-01-0000		1	Miscellaneous Wrn Lts
59-02-1110	>	1	-- Roto Ray Lt, Red-Clear-Blue, LED
		1	== EXT SA Xfire Chassis Modifictns - 4102.020 03/01/21 ==
10-01-1100	>	1	Vehicle Dimensions, Sngl Axle
10-02-1100		1	Label, Data, Fluid Levels
10-02-1200		1	Label, Data, Height x Length, Weight
10-02-1300		1	Label, Data, "No Ride" Rr Step
10-02-1400		1	Label, Data, Tire Pressure
10-02-2100		1	Label, Indicating Number of Seats
10-02-2500		1	Label, "Caution: Do Not Wear Helmet While Seated"
10-03-6020	>	1	Tow Plates (2), Rr Frame Rail, Under Step, 3/4"x3"ID
80-43-2400		1	-- Painting, Tow Plates, Blk
10-04-0430		1	Front Bumpers, 4000, Max Force 12"H, Max Force Wings
10-05-4324	<	1	-- Frnt Bmpr, 4000, Max Force 12"H, T/P Apron, M/F Wings, 24" Extnsn Bumper layout/config. to match Roseville #14836
10-04-3582		1	-- Bumper, Top Edge Line-X Coated
10-04-2570	<	1	Bumper Cmpt, Left, Tool Cmpt Deep outer compts (LH & RH), match drawing. Same as Roseville #14836
10-04-2700		1	Bumper Cmpt, Center, Tool Cmpt
10-04-2920	<	1	Bumper Cmpt, Right, Hosewell Cmpt Deep outer compts (LH & RH), match drawing. Same as Roseville #14836
10-04-3180		1	-- Bumper Cmpt Door, Alum T/P, Raised Full Width
10-04-3280		1	-- Bmpr Cmpt Lt, Whln Fluorent Plus, 45" LED Clr, Auto, w/Dr Opn Indctr, Ea
10-04-3460		1	-- Bumper Cmpt Door Gas Shock
10-04-2940		1	Grating, Bumper Cmpt, Turtle Tile, One (1) Cmpt
10-05-9202	<	1	Tow Eyes, Supplied & Shipped Loose w/ Chassis, Install (Pair) --The chassis supplied tow eyes are to be installed by RMN.
10-05-9600	>	1	Front Step Folding on Bumper / Grab Rail for Custom Chassis
33-65-1102	<	1	-- Step, Fldg, Frnt, Bumper Tail --Mounted on the driver side bumper tail, rearward of the intersector light, as per

PART NO	S	QTY	DESCRIPTION
			drawing.
			- Top of step to be flush with top of bumper, when folded.
33-70-3122	>	1	-- Handrail, Cstm Cab, Frnt Corner, 12", Sngl (RBM Supplied)
10-06-1602	>	1	Tire Pressure Indicator, Sngl Axle, Commander RWTG1235, EXT
10-07-0100		1	Exhaust, Horizontal Supplied With Chassis
10-08-2100		1	Mud Flaps, Rr Whls, Blk, w/ Bdy
10-13-1700	S <	1	Tray, Engine Tunnel Engine tunnel tray with glove box holders and cup holders to be built same as Roseville #14836. This will be on long tunnel so unit will be flush with back of tunnel and sized accordingly. PDF Sketch attached here. For pricing purposes the Knox, TIC and handlights mountings drawn on the sketch are NOT to be priced.
10-13-3540		1	-- Exterior Finish, Cabinet, To Match Cab Interior
10-13-3550		1	-- Interior Finish, Cabinet, Natural
10-13-8000	< >	4	-- Cup Holder, Black See 10-13-1700 for location details. Same as Roseville
10-18-6000	< >	1	Cab Tilt Control, Cstm, Left Front Cmpt or Pump Panel Locate on L1 Lower Pump Panel Drain Panel.
		1	== EXT Xfire Pmpr Pump&Plumbing - 4102.020 03/01/21 ==
20-27-1500	>	1	Pump, Rosenbauer, Model N, Mid-ship PTO, Direct Drive
20-27-0152		1	-- Rosenbauer Pump Body, Light Alloy
20-27-1520	>	1	-- Pump Flow Rtnng, Rosenbauer, Model N, 1250 GPM
22-24-3300		1	-- Intk, Gtd, 6" NST, 6" AKR Elec Vlv, RH Side, Bhnd Pnl, 9333 Cntrl
21-01-2500		1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn
22-40-7920	< >	1	-- Adptr, Color Coded, 30 Deg, 6"F x 5" Storz --Kochek, Quantum Hardcoat, Gold #56
22-41-7220	< >	1	-- Cap, 5" Storz, Color Coded, Lckng, w/Chain or Cable --Kochek, Quantum Hardcoat, Gold #56
20-27-6200		1	-- Primer, Rosenbauer, Automatic Belt Driven
27-10-3400	>	1	-- Pressure Gvrnr, FRC, In-Cntrl, w/Bdy, TGA300
20-28-3300		1	-- Pump Shift, Rosenbauer, PTO, Stationary Pumping
20-29-6100	<	1	-- Add'l Pump Engagement Switch at Pump Panel Contrasting color if needed
21-01-0300	>	1	-- Pump Drain, Master, Manifold, Hand Whl Type
20-31-1000		1	Fire Pump Testing - Pumpers/Tankers
20-31-1100		1	-- Pump Test, Pumper, UL
20-31-1500		1	-- Pump Test, Label
20-31-3200		1	Dump-Relief Vlv, Suction Side, ELK #40, NST
21-00-0090	S <	1	Pump Panel Approval Drawing Mimic LJFD 14363 as much as possible for pump panel, drain panels both sides etc.
21-00-2002		1	Screens/Anodes, Pump, 6"
21-00-3300		1	Piping, Stnls Stl - 1250 GPM & Up
21-01-5600		1	Intk Manifold, Stnls Stl
21-01-6600		1	Dschg Manifold, Stnls Stl
21-01-7300		1	Painting, Pump & Piping, Unpainted
21-01-8100		1	Threads, National Hose (NST)
22-22-3302		1	Intk, Gtd, 5" NST, 5" AKR Elec Vlv, 5" Pipe, Rr RH, 9333 Cntrl

PART NO	S	QTY	DESCRIPTION
21-01-2500		1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn
22-40-7820	< >	1	-- Adptr, Color Coded, 30 Deg, 5"F x 5" Storz Quantam Gold #56 hard coat adaptor 30 degree 5" F x 5" Storz. No cap required.
22-41-7220	>	1	-- Cap, 5" Storz, Color Coded, Lckng, w/Chain or Cable
22-51-5212	>	1	Tank-To-Pump, Water Tank, 3" Vlv/4" Piping, Midship, Xfire
24-62-1346	<	1	-- Vlv Mfgr, AKR, 8000, (3"), Sealed Lever Bank Same levers as Roseville #14836
23-02-1402		1	Tank Fill/Cooling Line, Water Tank, 2-1/2"
24-62-1286	<	1	-- Vlv Mfgr, AKR, 8000, (2-1/2"), Sealed Lever Bank Same levers as Roseville #14836
23-05-3202		1	Dschg, 1-1/2" Front Center Bumper, Swivel
21-01-2500		1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn
23-05-9102	<	1	-- Hose Connection, Frnt Bmpr, Below, Swvl, 2" x 1-1/2" NST, Brass --Hose connection is to be under the front bumper cover, officer side, toward the front to leave space for a customer supplied/installed pry-bar in the rearward area. --Keep as low as possible.
24-62-1246	<	1	-- Vlv Mfgr, AKR, 8000, (2"), Sealed Lever Bank Same levers as Roseville #14836
27-02-1500	>	1	-- Gauge, Dschg, IC, 2-1/2" 400#, WF
23-08-1202	<	1	Speedlay Dschgs, (2) 1-1/2", Ahead Pump Panel >>Both trays to have the capacities to hold 250' of 1 3/4" fire hose and nozzles
21-01-2500		2	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn
23-08-2752	<	2	-- Hose Connection, Crosslay/Speedlay, Swvl, 2" x 1-1/2" NST, Brass Connections to be over head of hose lays / trays and both located on right hand side of truck.
23-08-8100	<	2	-- Speedlay, 1-3/4", Removable Hose Tray, Alum w/Retaining Device >>Speedlay trays to each be the same size, lower to be as narrow as the top. Trays to be sprayed with same gray liner material as body compartments.
24-62-1246	<	2	-- Vlv Mfgr, AKR, 8000, (2"), Sealed Lever Bank Same levers as Roseville #14836
27-02-1500	>	2	-- Gauge, Dschg, IC, 2-1/2" 400#, WF
23-10-4120		1	Dschg, 2-1/2", Right Side, Pump Panel
21-01-2500		1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn
24-01-2410		1	-- Adptr, Reducing, 2-1/2" NST F x 1-1/2" NST M, LW Alum
24-02-1210		1	-- Elbow, 2-1/2"F x 2-1/2" NST M, LW Alum
24-62-1286	<	1	-- Vlv Mfgr, AKR, 8000, (2-1/2"), Sealed Lever Bank Same levers as Roseville #14836
27-02-1500	>	1	-- Gauge, Dschg, IC, 2-1/2" 400#, WF
23-10-5120		1	Dschg, 3" x 3"NST, Right Side, Pump Panel
21-01-2500		1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn
24-01-4000		1	-- Adptr, LW Alum, 5" Storz x 2-1/2"M
24-02-2500		1	-- Elbow, LW Alum, 5" Storz x 3"F
24-62-1346	<	1	-- Vlv Mfgr, AKR, 8000, (3"), Sealed Lever Bank Same levers as Roseville #14836

PART NO	S	QTY	DESCRIPTION
27-02-1500	>	1	-- Gauge, Dschg, IC, 2-1/2" 400#, WF
23-13-3220	S <	2	Dschg, 2-1/2", Rear --Two (2) 2.5" discharges are to be installed at there rear of the body. --One (1) out rear of truck below the hosebed, directly under 1-3/4" hose lay --One (1) in rear compartment, up high in driver side corner just inboard of roll-up door. Far enough from other components to install fittings/hose properly.
21-01-2500		2	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn
24-01-2410	<	1	-- Adptr, Reducing, 2-1/2" NST F x 1-1/2" NST M, LW Alum --For the rear-of-body upper discharge that is just below the main hosebed.
24-02-1210		2	-- Elbow, 2-1/2"F x 2-1/2" NST M, LW Alum
24-62-1286	<	2	-- Vlv Mfger, AKR, 8000, (2-1/2"), Sealed Lever Bank Same levers as Roseville #14836
27-02-1500	>	2	-- Gauge, Dschg, IC, 2-1/2" 400#, WF
24-11-4202		1	Monitor Dschg, 3", Top of Bdy, Midship
21-01-2500		1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn
24-13-1000		1	-- Mntr, AKR, Apollo #1, #3423 Lift-Off w/ Direct Mnt, No Nzls
24-18-4210		1	-- Nzl, Mstr Strm, AKR 5160, Akromatic, 1250GPM
24-18-4100		1	-- Stacked Tips,P/N 2499,AKR, w/sream Shaper, P/N 3488, 2-1/2" NST
24-18-8300		1	-- Mntr, Tele Ext, TFT, XG18L, 3", Vic X NPT, #XG18VL-PL
24-62-1346	<	1	-- Vlv Mfger, AKR, 8000, (3"), Sealed Lever Bank Same levers as Roseville #14836
27-02-1500	>	1	-- Gauge, Dschg, IC, 2-1/2" 400#, WF
25-06-3100	>	1	Foam Sys, F/PRO 2001, Cls A/B, 2.6G, 12V S105-2001
25-20-1202		1	-- Foam Plmbg, Sngl Class A Tank, 1" Mnl Vlv
25-21-1300		1	-- Foam Tank, Intgrl Poly, 20 Gal, Class A
25-22-9300		1	-- Foam Tank, UPF
25-23-1000		1	-- Foam Tank Drain, 1" Gate Vlv, Under Tank
27-36-1100		1	-- Foam Tank Gauge, FRC TankVision Pro 300, Class A, Pump Panel #WLA360-A00
25-24-3000	>	1	-- Foam Pump, FoamPro, 12V Elec, Refill Transfer
		1	== EXT Xfire-Side Mount Pump Cmpt - 4102.020 03/01/21 ==
26-02-1502	< >	1	Pump Enc, Integral Side Mt, XFIRE, L1/R1, Lever Bank Controls --Keep pump panel and speedlays as low as possible. Need to retain 17" of clear vertical space below structure for double stack of Lift-Up drains under speedlays.
26-35-6100	< >	1	Pump Control Panel, LogicColor, Pumper/Tanker/Aerial --The pump op panel 8-bank switch panel is to be mounted on the upper access panel above the pump controller panel. The switches are to be in the following order, Left to Right: Pump PTO, Pump OK Engaged (green light), Pump Heater, "All Scene Lights", Air Horn (red rocker). --An additional 4-bank switch panel is to be installed on the RH side panel. It is to have switches in the following order, Left to Right: Ladder Rack, "All Scene Lights", Air Horn (red Rocker), blank.
26-31-1300		1	Pump Side Access Door, Upper RH, S/S

PART NO	S	QTY	DESCRIPTION
26-35-3210		1	Pump Panel, Stnls Stl, LH/RH, SM, EXT
26-35-1100		1	-- Pump Panel, Bltd, LH
26-35-1400	>	1	-- Pump Panel, Hngd, RH
26-35-1250		1	-- Pump Panel, Recessed, Lower, RH, EXT
26-50-1200	>	1	Heater, Pump Enc, 30,000BTU, w/Swtch on Pmp Oprtr's Pnl
26-50-3200		1	Heat Pan, Pump Enc, Midship, Slide Out Panel, Alum
26-55-1100		1	Labels, Test Data and Safety Placards
26-55-2410		1	Labels, IC Color Coded, EXT
26-56-2112		1	Pump Engage Lt (1), Grn Lt Pump Panel, Actuated w/Pmp Engmnt
27-01-1500	>	1	-- Mstr Gauges, IC, 4" PSI, Pr
27-01-4100	>	1	Gauge, Test Taps
27-35-1100		1	Water Tank Gauge, FRC, TankVision Pro 300, Pump Panel WLA300-A00
27-35-1510	< >	1	-- Water Tank Gauge, FRC, Max Vision Remote Tank Display, (3 Lts) --Three (3) tank level lights are to be installed on the body as follows: --One (1) on each side, just forward of the L1/R1 compartments, --One (1) on there rear of the body, up high on the driver's side, inboard of the warning & scene lights.
27-37-1100	<	2	Air Horn, Push Button, Pump Panel One on each side of pump panel. With red rocker switch
31-01-5772	S <	1	== EXT SA Xfire - All Options - 4102.020 03/01/21 == Bdy, XML, 900, Lddr Rck, 2-Spdlys, RU Drs, 26"D/100"W/94"H (Cmndr 11" RR) 900 Gals
25-28-1782	S <	1	-- Water Tank, 900 Gal, Pmpr/Tnkr , Poly, L-Tank 900 Gals
25-42-1100	>	1	-- Water Tank, Base Specs, Poly
25-42-1200		1	-- Water Tank, Manufacturer, UPF, Poly
25-44-1700	S <	1	-- Water Tank, Fill Tower, 8" x 13", EXT --The fill tower is to be 8" x 13". --Provide a "WATER" label on the fill tower.
25-50-1400		1	-- Water Tank Clean-out & Plug, 3"
25-50-2100	<	1	-- Direct Tank Fill, 2-1/2" Fireman's Friend, plug & screen FFE2525CF8M-F-2-1/2 --The Fireman's Friend is to be installed on the driver side pump op panel, in the lower forward drain panel area. --The label for the direct tank fill (Fireman's Friend) is to be engraved style to stand out well. It is to read "Direct Tank Fill" above "Max PSI - 100" and be a Red label with White Lettering. NOTE that if the Fireman's Friend changes the Max PSI the "Max PSI" number on the label is to be changed accordingly.
21-01-2502		1	-- Drain/Bleeder, IC Lift-Up, Mnl 1/4 Turn - Spec Only
22-41-1110	S <	1	-- Adptr, 2-1/2"M X 1-1/2"F with 1-1/2" Plug, LW Alum, Rocker Lug, w/Chain >>Kocheck 2-1/2" Male to 1-1/2" Female Swivel with 1-1/2" Plug 54R1525, PC1552 --Color is to be Gold, Quantum Hardcoat code #56. --This will be for the specified Fireman's Friend.
29-00-2000	< >	1	-- Hosebed, Pmpr, 42" W x 88" L x 46" H - EXT -
29-10-1050		1	-- Hosebed, Grating, Extrd Alum, <168" Long - EXT

PART NO	S	QTY	DESCRIPTION
29-10-5020		1	-- Hosebed Storage Cpcty, EXT
29-10-5090		1	-- Hosebed, Strge Cpcty, 30 Cubic Feet, Minimum
29-10-5600	<	12	-- Hosebed, Strge Cpcty 2.5" DJ Hose (50-ft Lngth) 400' + 200'
29-10-6000		8	-- Hosebed, Strge Cpcty 5" LDH SJ Rubber (100-ft)
29-10-8152		1	-- Hosebed, Divider, 1/4" Alum, EXT
29-10-8300		1	-- Hosebed, Divider, Handhole Cutouts
29-10-8452	<	1	-- Hosebed, Divider, Front of Hosebed, 42" - XFIRE Hold downs at front to be same style as coffin compts.
29-20-3452		1	-- Hosebed Cvr, Alum T/P, <110" L, 42" Wide - EXT
29-10-8162		1	-- Hosebed, Divider, Stationary, EXT
29-10-8300		1	-- Hosebed, Divider, Handhole Cutouts
29-20-6652		1	-- Mnl Operation, Hosebed Cvr, Alum T/P
29-20-7325	<	2	-- Hsbd Cvr Lt, OSS Access, 36" LED Tube Lt, Ea --The lights are to be mounted on the undersides of the hosebed cover, inboard as far as possible so they are at the top of the doors when the doors are in the open position.
29-20-7800	S < >	1	-- Rr Vinyl Flaps for Alum Cvr --The hosebed vinyl end flaps are to be purchased from D&S Covers. --No Velcro connecting LH portion to RH portion..
29-20-5602		1	-- Vinyl Color, BLACK
33-70-3100	S <	2	-- Handrails, Hosebed Cover, 12", Black, Pair --Four (4) hand rails are to be installed, Black finish, one (1) each on each hosebed cover at each end.
30-01-2300		1	-- Bdy Const - Rosenbauer EXT - SA Crossfire - Roll-Up Drs
30-00-0299		1	-- Raw Material Surcharge - Single Axle
30-02-1602	<	1	-- Drs, Roll-Up, Outside Cmpt, Specs, XFIRE ROM
30-02-1260	>	8	-- Dr Strap, EZ-Pull Down, Ea
30-02-1696	<	8	-- Finish, Roll-up Drs, Painted, Specs, XFIRE, (Ea) Job Color Red. Rear Cmpt (RR) Door to remain unpainted/natural finish.
30-02-1922	<	1	-- Side Body Header, Alum, Pntd, Sngl Axle, XFIRE Color to be job color black
44-01-1400		1	-- Bdy Trim, Frnt Bdy, Ht of Side Cmpts, Alum T/P
44-01-4020		1	-- Bdy Trim, Rr Bdy, Smooth Alum for Chevron Stripe, EXT
44-02-1400	S <	1	-- Rub Rails, Lwr Bdy, Poly, Recessed Warn Lights >UPF Textured Finish, Black. >Reference drawing for three (3) pair of ION Duo warning lights partially recessed in the rub rails >Order at 1" thickness and have marker light holes (1 each, below L1/R1, L2/R2 and L4/R4) be only partially recessed, not fully. >Similar to Lake Johanna, but this has ION Duo lights in place of strip lights.
44-05-1400	<	1	-- Whl Well Panel, Stainless, Pntd, Sngl Axle Job color red
44-06-4320		1	-- Fenderette, Polished Stainless Steel, EXT
30-10-1502		1	-- Sub-Frame, EXT, SA Crossfire
30-01-2250		1	-- Electrolysis Corrosion Cntrl

PART NO	S	QTY	DESCRIPTION
32-L1-5000	S <	1	-- L1 Compt, 50"W x 63"H x 12"D - Roll Up Outside Compt --L1 compartment, 50" wide. >>Maximize depth under Sealed Lever Controls. No lower intakes/discharges on LH side under pump controls. Drains will be in forward area ahead of tool chest (C-Tech).
32-L2-5002	S <	1	-- L2 Compt, 34"W x 63"H x 26"D - Roll Up Outside Compt --L2 compartment, 34" wide.
32-L3-6002	S <	1	-- L3 Compt, 60"W x 36"H x 26"D - Roll Up Outside Compt --L3 compartment, 60" wide with 36"H (drop floor)
32-L4-5002	S <	1	-- L4 Compt, 50"W x 63"H x 26"D - Roll Up Outside Compt --L4 compartment, 50" wide.
32-R1-5000	S <	1	-- R1 Compt, 50"W x 63"H x 12"D - Roll Up Outside Compt --R1 compartment, 50" wide.
32-R2-5002	S <	1	-- R2 Compt, 34"W x 63"H x 26"D - Roll Up Outside Compt --R2 compartment, 34" wide.
32-R3-6002	S <	1	-- R3 Compt, 60"W x 36"H x 26"D - Roll Up Outside Compt --L3 compartment, 60" wide with 36"H (drop floor)
32-R4-5002	S <	1	-- R4 Compt, 50"W x 63"H x 26"D - Roll Up Outside Compt --R4 compartment, 50" wide.
32-RR-4206	<	1	-- RR Compt, 42"W x 24"H x 24"D - Roll Up/Non Trans >>Roll-Up Door is Natural Finish - not painted for specified chevron
33-60-2102	>	1	-- Rr Bdy, Flat Back, XFIRE
33-70-1124		1	-- Handrail, Extruded Aluminum, Left Rr, Vert, 24", Single
33-70-1172		1	-- Handrail, Right Rr, Vert, 36", Single
33-70-2042		1	-- Handrails, Pmpr, Intermediate Step Below Hosebed, Horz, 42"
33-70-3114		2	-- Handrails, Pmpr, Right Top of Bdy, Rr Access Landing, 12", Single
33-61-1620	<	1	-- Rr Step, EXT Bdy, Bolt-On, 18" Linex black as specified in paint section
33-61-5030		1	-- Rr Step, Angled Corners
38-90-2014		1	-- Access Ladder, Rosenbauer EZ Climb, Right Rr, 14" Wide
54-10-1312		2	-- Step Lt, Access Ladder, OSS Access, 8" LED , Plshd Bzl, Ea
33-62-5242	<	1	-- Step, Bltd, Treadplate, Rr Intermediate, 42" RH side angled, see Drawing.
38-90-2064		1	-- Access Ladder, Rosenbauer EZ Climb, Left Rr, 14" Wide
54-10-1312		2	-- Step Lt, Access Ladder, OSS Access, 8" LED , Plshd Bzl, Ea
44-17-5206	<	1	-- Roof Cmpt, Left Side, Two (2) Drs, 24"W x 83"L x 15"D, XFIRE -- Approx 24" wide, X 15" deep X 95" and 88" long, as per drawing.
45-30-2400		2	-- Turtle Tile, Floor, Roof Cmpts, <90"L
55-04-3345	<	2	-- Cmpt Lt, Dr, OSS Access, 62" LED Tube Lt, Ea --Mount one (1) each on the under side of the coffin lids, inboard so light is toward top of door when opened.
55-06-1400		2	-- Cmpt Lt, Dr Swtch, Magnetic, Ea
44-20-8304	S <	1	-- Bdy Dunnage, Mid --The dunnage area is to be sized as per drawing. --It is to have an embossed treadplate floor.
54-11-1500	<	2	-- Wlkwy Lt, Access Landing, Rcsd, LED, One (1) Two (2) lights to be installed one (1) on each side of the dunnage area adjacent to the

PART NO	S	QTY	DESCRIPTION
			deck gun.
54-11-2102		1	-- Lt Swtch, On w/ Park Brake or Grnd Lts
44-30-2202		1	-- Roof Access, Landing Area, Left Rear, 24"W x 20"L x 15"D
54-11-1500		1	-- Wlkwy Lt, Access Landing, Rcsd, LED, One (1)
54-11-2102		1	-- Lt Swtch, On w/ Park Brake or Grnd Lts
44-30-2222		1	-- Roof Access, Landing Area, Right Rear, 24"W x 18"L x 15"D
54-11-1500		2	-- Wlkwy Lt, Access Landing, Rcsd, LED, One (1)
54-11-2102		1	-- Lt Swtch, On w/ Park Brake or Grnd Lts
90-02-1552	< >	1	-- Ladder Mtg, Hyd Rack, Center Mt Lo Pro 1.0, Right Side, Xfire -- 24' Extension Ladder to be on the outside position.
90-02-0520	S <	2	-- Controls, Mtg, Equipment Rack, Rear Body Face + Pump Panel One switch at pump panel and one on rear face
90-02-1265		1	-- Equipment Rack, Covering, Support Arms, Pntd to Match Body
90-02-1280		1	-- Equipment Rack, Covering/Facade, Equipment, Match Header
90-02-5352	S <	1	-- Fldg Attic Ladder Mntg, On Hyd Rack, w/PAC Mnts Twlf/Xfire/RXT --PAC Mounts (#1070) are to utilized for securing the folding attic ladder.
90-16-5200	<	3	-- Pike Pole Mtg Tube, Intrnl, Ea --Three (3) tubes mounted in the driver side Long Storage compartment, as per drawing
90-25-7732		1	-- Suction Hose or Long Strg Cmpt, Abv Cmpt/Bhnd RU Dr, Left Side, Chevron, XFIRE
90-25-7832		1	-- Suction Hose or Long Strg Cmpt, Abv Cmpt/Bhnd RU Dr, Right Side, Chevron, XFIRE
44-11-5154		1	Whl Well Cmpt, Ahd of Whls Left Side, XFIRE, Pntd Alum Dr
44-10-7020	>	1	-- Whl Well Cmpt, Whl Chock Storage, XFIRE
44-11-5354		1	Whl Well Cmpt, Bhnd Whls Left Side, XFIRE, Pntd Alum Dr
44-07-1202		1	-- Fuel Fill Cap, LH Whl Well Panel, Bhnd Whlwl Cmpt Dr
44-10-2400	>	1	-- Whl Well Cmpt, Dual SCBA Storage, XFIRE
44-10-6000		2	-- Whl Well Cmpt, SCBA Cmpt Straps
44-11-5554		1	Whl Well Cmpt, Ahd of Whls Right Side, XFIRE, Pntd Alum Dr
44-10-7010	S < >	1	-- Whl Well Cmpt, (2) Extngrshr, Pntd Dr Similar to Wheel Chock Cmpt, but Divided to hold two fire extinguishers and lined with rubber matting.
44-11-5754		1	Whl Well Cmpt, Bhnd Whls Right Side, XFIRE, Pntd Alum Dr
44-10-2800	>	1	-- Whl Well Cmpt, Triple SCBA Storage, XFIRE
44-10-6000		3	-- Whl Well Cmpt, SCBA Cmpt Straps
45-00-2100		1	Compt Provisions, XFIRE
45-00-2110		1	-- L1 Compt Provisions, XFIRE
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-00-2119		1	-- L1 Compt Provisions, XFIRE, Custom
45-15-1200	<	1	-- Divider, Vert, Bolt-In, 3/16" Alum -- Locate forward of the C-Tech drawer system.
45-26-7000		1	-- === C-Tech Storage Modules ===
45-26-7230	< >	1	-- Mobile Storage System, CTech, 3-Drwr, 18"-26"D x 21-38"W --The C-Tech 3-drawer system is to be mounted in the rearward area of L1, as per drawing. It is to be about 18"D x 38"W. --NOTE: Do Not Order until engineering has determined final depth for lower portion of L1 compartment. Maximize Depth. --Coating is to be C-Tech red WITH BLACK HANDRAILS
45-26-7838		1	-- Module Width, 38"

PART NO	S	QTY	DESCRIPTION
45-26-7908		1	-- Drawer Ht, 3"
45-26-7920		1	-- Drawer Ht, 5"
45-26-7960		1	-- Drawer Ht, 9"
55-01-3625		1	-- RBA InVisiLight, 56" Rcsd, ShvIng, Sides (2) Ea Cmpt, EXT
55-01-3685		1	-- RBA InVisiLight, 51" Rcsd, Ceiling Lt, Ea Cmpt, EXT
55-06-1100		1	-- Cmpt Lt, Dr Swtch, Auto, Ea
45-00-2120		1	-- L2 Cmpt Provisions, XFIRE
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-00-2129		1	-- L2 Cmpt Provisions, XFIRE, Custom
45-02-4100		1	-- Shelf, Adjust, Alum 3/16", EXT
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
45-15-1200		1	-- Divider, Vert, Bolt-In, 3/16" Alum
45-19-2100	S <	1	-- Helmet Hooks, Alum, Non-Riding, Three (3) Provide 3 equipment hook for hanging helmets from in forward portion of compartment. Exact locations TBD.
90-21-1200	>	1	-- SCBA Mntg Brkt, Zico, 45 Minute, Non Riding HZ-KD-UH-6-SF
45-30-1400		1	-- Turtle Tile, Compartment Floor
55-01-3625		1	-- RBA InVisiLight, 56" Rcsd, ShvIng, Sides (2) Ea Cmpt, EXT
55-01-3665		1	-- RBA InVisiLight, 28" Rcsd, Ceiling Lt, Ea Cmpt, EXT
55-06-1100		1	-- Cmpt Lt, Dr Swtch, Auto, Ea
45-00-2130		1	-- L3 Cmpt Provisions, XFIRE
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-00-2139		1	-- L3 Cmpt Provisions, XFIRE, Custom
45-10-2100	S < >	1	-- Pull-Out Drop-Down Tray, 250#, OSS, (1/4 Dpth), EXT - On Scene Solutions
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
80-76-0110		1	-- Reflective Stripe, Red/White, Trays/Toolboards, Ea
45-30-1400		1	-- Turtle Tile, Compartment Floor
55-01-3610		1	-- RBA InVisiLight, 28" Rcsd, ShvIng, Sides (2) Ea Cmpt, EXT
55-01-3665		1	-- RBA InVisiLight, 28" Rcsd, Ceiling Lt, Ea Cmpt, EXT
55-06-1100		1	-- Cmpt Lt, Dr Swtch, Auto, Ea
45-00-2140		1	-- L4 Cmpt Provisions, XFIRE
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-00-2149		1	-- L4 Cmpt Provisions, XFIRE, Custom
45-02-4100		1	-- Shelf, Adjust, Alum 3/16", EXT
45-15-1200	<	2	-- Divider, Vert, Bolt-In, 3/16" Alum --Forward vertical divider to be installed 28" from front wall of compartment. The second divider will be installed forward of the rear wall spaced to hold the specified Little Giant ladder.
45-16-1100	S <	1	-- Tool Board, Roll Out, 500#, OSS, 3/16" Alum (1/4 Depth) --One (1) adjustable On Scene Solutions brand pull-out tool boards is to be supplied/installed tight up against the forward vertical divider, as per drawing.
80-76-0110		1	-- Reflective Stripe, Red/White, Trays/Toolboards, Ea
45-26-1100	< >	1	-- Fire Extngrshr Module, Brushed Alum, Ea Installed underneath the bottom of the specified shelf far forward
45-27-0100	< >	2	-- Strap, Equipment Securement --Two (2) fixed Velcro straps are to be supplied as follows: --One (1) to secure the Little Giant ladder. --One (1) installed horizontally on the extinguisher storage module. --NOTE that the straps are to be the "single strap style which loops thru a footman's loop and attaches back on itself, allowing it to be cinched tight.
55-01-3625		1	-- RBA InVisiLight, 56" Rcsd, ShvIng, Sides (2) Ea Cmpt, EXT
55-01-3690		1	-- RBA InVisiLight, 56" Rcsd, Ceiling Lt, Ea Cmpt, EXT

PART NO	S	QTY	DESCRIPTION
55-06-1100		1	-- Cmpt Lt, Dr Swtch, Auto, Ea
45-00-2210		1	-- R1 Cmpt Provisions, XFIRE
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-00-2219		1	-- R1 Cmpt Provisions, XFIRE, Custom
55-01-3625		1	-- RBA InVisiLight, 56" Rcsd, ShvIng, Sides (2) Ea Cmpt, EXT
55-01-3685		1	-- RBA InVisiLight, 51" Rcsd, Ceiling Lt, Ea Cmpt, EXT
55-06-1100		1	-- Cmpt Lt, Dr Swtch, Auto, Ea
45-00-2220		1	-- R2 Cmpt Provisions, XFIRE
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-00-2229		1	-- R2 Cmpt Provisions, XFIRE, Custom
45-06-2100	S < >	2	-- Slide Tray, 500#, OSS, Alum 3/16" (1/4 Dpth), EXT On Scene Solutions 819 Series Slide mechanism.
			Lower tray is mounted on floor. Chain saw module will mount on upper (adj) tray.
45-05-4300	>	1	-- Slide Tray, Mtd on Adj Tracks
45-30-1125		2	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
80-76-0110		2	-- Reflective Stripe, Red/White, Trays/Toolboards, Ea
45-26-5500	>	1	-- Strge Box, Poly Plastic, 16"W x 16"D x 22"L
45-19-2100	U <	1	-- Saw Storage Module, Angled, Lift up storage. Similar to 14836 Roseville
			--An angled, hinged, lift up storage device shall be constructed of smooth aluminum. It is to be 28" wide X 11" deep at the bottom and 32" tall. The module is designed to hold two chainsaws (mounting required) on the front/top of the hinged portion of the module. When lifted open the module shall provide storage behind where the chains are being mounted. Two (2) gas struts shall be provided to hold the cover in the open position. It will be mounted on the upper slide out tray.
55-01-3625		1	-- RBA InVisiLight, 56" Rcsd, ShvIng, Sides (2) Ea Cmpt, EXT
55-01-3665		1	-- RBA InVisiLight, 28" Rcsd, Ceiling Lt, Ea Cmpt, EXT
55-06-1100		1	-- Cmpt Lt, Dr Swtch, Auto, Ea
45-00-2230		1	-- R3 Cmpt Provisions, XFIRE
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-00-2239		1	-- R3 Cmpt Provisions, XFIRE, Custom
45-10-2100	S < >	1	-- Pull-Out Drop-Down Tray, 250#, OSS, (1/4 Dpth), EXT -- On Scene Solutions
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
80-76-0110		1	-- Reflective Stripe, Red/White, Trays/Toolboards, Ea
45-30-1400		1	-- Turtle Tile, Compartment Floor
55-01-3610		1	-- RBA InVisiLight, 28" Rcsd, ShvIng, Sides (2) Ea Cmpt, EXT
55-01-3685		1	-- RBA InVisiLight, 51" Rcsd, Ceiling Lt, Ea Cmpt, EXT
55-06-1100		1	-- Cmpt Lt, Dr Swtch, Auto, Ea
45-00-2240		1	-- R4 Cmpt Provisions, XFIRE
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-00-2249		1	-- R4 Cmpt Provisions, XFIRE, Custom
45-10-2410	S < >	1	-- Tip-Down Tray, 250#, OSS, (1/4 Depth), Up to 51"W On Scene Solutions 84 Series.
45-05-4300	>	1	-- Slide Tray, Mtd on Adj Tracks
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
80-76-0110		1	-- Reflective Stripe, Red/White, Trays/Toolboards, Ea
45-26-7000		1	-- === C-Tech Storage Modules ===
45-26-7350	S < >	1	-- Mobile Storage System, CTech, 5-Drwr, 18"-26""D x 39"-48"W 48"W
45-26-7844	S <	1	-- Module Width, 48" 48" Wide

PART NO	S	QTY	DESCRIPTION
45-26-7908		1	-- Drawer Ht, 3"
45-26-7920		1	-- Drawer Ht, 5"
45-26-7930		1	-- Drawer Ht, 6"
45-26-7950		1	-- Drawer Ht, 8"
45-26-7974		1	-- Drawer Ht, 12"
45-30-1125	<	1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each) -- Turtle Tile to be placed on the top of the C-Tech drawer system.
55-01-3625		1	-- RBA InVisiLight, 56" Rcsd, ShvIng, Sides (2) Ea Cmpt, EXT
55-01-3690		1	-- RBA InVisiLight, 56" Rcsd, Ceiling Lt, Ea Cmpt, EXT
55-06-1100		1	-- Cmpt Lt, Dr Swtch, Auto, Ea
45-00-2310		1	-- RR Cmpt Provisions, XFIRE
44-40-1020		2	-- Vents, Compts, Louvers (Ea)
45-00-2319		1	-- RR Cmpt Provisions, XFIRE, Custom
45-05-4100	S < >	1	-- Slide Tray, 500#, OSS, Alum 3/16" (1/4 Dpth), EXT On Scene Solutions 819 Series Slide mechanism. Left of the vertical divider
45-30-1125		1	-- Turtle Tile, Shelves/Trays, 1/4 Depth, (each)
80-76-0110		1	-- Reflective Stripe, Red/White, Trays/Toolboards, Ea
45-15-1200	<	1	-- Divider, Vert, Bolt-In, 3/16" Alum --A 16" vertical divider is to be installed 12" from the officer side wall of the compartment, as per drawing.
55-01-3360		1	-- Cmpt Lt, Wall, OSS Access, 18" LED Tube Lt, (2) Ea Cmpt
55-06-1100		1	-- Cmpt Lt, Dr Swtch, Auto, Ea
90-03-0220		1	Ladders, Ground, Provd'd By Manufacturer, MN
90-03-3300		1	-- Ladder, Roof, Duo-Safety, 14' Alum 775-A
90-06-4600		1	-- Ladder, Ext, Duo-Safety, 24' Alum, 2 Sect 900-A
90-03-0230		1	Ladders, Fldg Attic, Provd'd By Manufacturer, MN
90-08-2600		1	-- Ladder, Attic, Duo-Safety, 10' Alum, Fold 585-A
90-10-1300		1	Ladder, Velocity (Little Giant), 9-15' Alum, Model 15417-001
90-16-6100		1	Pike Poles Provided by Rosenbauer
90-23-1300		1	-- Hook, Roof NY, w/ Grips, 6-ft, Fire Hooks Unlmt
90-23-1400		2	-- Hook, Roof NY, w/ Grips, 8-ft, Fire Hooks Unlmt
90-25-9300	>	1	Suction Hose Provd'd By, Purchaser/Fire Department
90-25-3199		1	-- Non-Bdy Bldr Suppl'd Suction Hose, Flex, PVC, 6"x10'-MN
90-25-6120		1	-- Non-Bdy Bldr Supl'd Sctn Hse Cplgs, Alum, LH FM x RLM-MN
60-25-9400	>	1	Shore Power Inlet, Wiring to Interior Cab Rcptcls
60-25-9500	>	1	Shore Power Inlet, Wiring to Interior Bdy Rcptcls
60-25-9610	< >	3	Shore Power Strip, 120V, 15 Amp, 4-Plug Strip Rcptcl --Two (2) in cab and one (1) in L2. Exact location TBD. Extra wire provided for the strip in L2 for possible future relocation.
		1	== EXT SA Xfire - Pnt/Ltr/Str - 4102.020 03/01/21 ==
80-20-5200		1	Bdy Paint, Pmpr/Tnkr, Two-Tone, EXT
80-32-1350		1	Cmpt Finish, DA Sanded, Up to 10 Cmpts, EXT
80-36-1100	<	1	Cmpt Finish, Roof, Natural, 2 Cmpts Roof compartments
80-40-1250		1	Whl Finish, By Chassis Manufacturer
80-42-1600		1	Bdy Paint, Touch Up, 2 oz. Bttl, Two Color
80-43-2995	>	1	-- Blacked Out Items- Line-X/Paint
80-43-3020		1	-- Bumper Apron (flat areas) Finish , Line-X Black, Ea
80-43-3032		1	-- Bumper Lid (raised) Finish , Line-X Black, Ea
80-43-3108		1	-- Rear Step Finish , Line-X Black, Ea
80-50-1200	S <	1	\$4,000 Graphics Allowance An allowance of \$4000.00 is included in the price of the truck for graphics. Department will be responsible for working with Advanced Graphics to finalize the design and

PART NO	S	QTY	DESCRIPTION
			provide a quote to Rosenbauer to issue a PO to Advanced Graphics.
80-70-1100	>	1	Stripe, Reflective, Supl'd by Dealer
80-72-1000	S <	1	Stripe, Reflective, Chevron Pattern Frnt Bmpr Red/Black Red and black chevron
80-72-1110		1	Stripe, Refl, 3M Diamond Grde, Chevron Pattern Entire Rr, EXT
80-72-1810		1	Stripe, Reflect, Diamond Grade, Chevron Pattern Rear Roll Up Door Red/Yellow
80-72-1998		1	==== No Interior Door Reflective Chevron ====
80-79-1000		1	NFPA Standing / Walking Surfaces Yellow Safety Tape (NFPA 15.7.1.6)
		1	== EXT Xfire - Loose Equipment - 4102.020 03/01/21 ==
90-01-5920	S <	1	Whl Chocks Pair Worden #HWG, no Mount -Delete cost of mounts. They will go in the specified wheel choc compartment.

QUOTATION

General Safety Fire Apparatus

LAKE ELMO 2022 FORMAL ENGINE CHASSIS SPECS

Exp. Date: 10/28/2021
Quote No: 10116-0042
09/29/2021

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PART NO	S	QTY	DESCRIPTION
		1	== Rosenbauer Commander - 1115.017 11/15/17 ==
03-00-0002		1	=== CONFIGURATION ID: 2021C-XXXXX ===
03-00-0030		1	-- Aluminum Surcharge
03-00-0031		1	-- Frame Surcharge
03-00-0101		1	-- Certification - NFPA
08-09-0101		1	-- Cab Paint Warranty Seven Years
08-09-0104		1	-- Cab Structural Warranty Ten Years
08-09-0105		1	-- Transmission Warranty Allison Five Years
08-09-0106		1	-- Engine Warranty Cummins Five Years
08-09-0107		1	-- Frame Warranty Lifetime
08-09-0109		1	-- Front Axle Warranty Hendrickson
08-09-010A		1	-- Rear Axle Warranty Meritor - 5 Year
08-09-0111		1	-- Warranty - Cab and Chassis Two Year
08-09-0301		1	-- Cab Test Information Static Load Seat Test
08-09-0302		1	-- Cab Test Information Crash Test ECE-29
08-09-0303		1	-- Cab Test Information SAE J2420; J2422
08-09-0304		1	-- Cab Test Information Roof Crush, Side & Frontal Impact
08-09-0501		1	-- Operation & Parts List Manuals (2) Sets, CD
08-09-0503		1	-- Engine & Transmission Operation Manuals (1) Set
08-09-0530		1	-- As Built Wiring w/Plumbing Diagram (1) Set
08-09-0540		1	-- On Board USB Manual Storage
08-80-0200		1	-- DOT KIT
		1	VEHICLE TYPE
03-00-0124		1	Pumper
03-00-0140		1	-- Standard Crossmembers
07-03-0106	< >	1	-- Midship Pump 1 O'clock PTO Driven Pump Rosenbauer N1250 pump
03-00-0161	< >	1	Angle of Approach Requirement 8 degrees
03-00-0163	< >	1	Angle of Departure Requirement 8 degrees
		1	CAB
03-00-0711		1	60" Cab Length 11" Roof
		1	CAB STEPS
03-06-0010	S <	1	-- Steps Aluminum Treadplate Lower steps to be Line-x black
		1	CAB DOORS
03-06-1015		1	-- Cab Entry Doors
03-06-1025		1	-- Full Length Cab Entry Doors
03-06-1500		1	-- No Lower Door Kick Panel (No Overlay)
03-06-1100		1	-- Cab Door Hardware Chrome (4)

PART NO	S	QTY	DESCRIPTION
03-06-1120		1	-- Cab Door Locks Manual
03-06-1135		1	-- Interior 1-Piece Door Panel Type Aluminum
03-06-1206		1	-- Door Panel Finish Line-X Black
03-06-1225	>	1	-- Chevron, Reflective, Interior Cab Door - Scotchlite Red/Yellow
04-05-0105		1	-- Interior Handle Front Door Grab Handles - Black Powder Coat
04-05-0150		1	-- Interior Grab Handle Rear Door Chicago Style 34" Black Powder Coat
04-05-0182		1	-- Additional Grab Handles, "A" Pillar
		1	CAB GLASS
03-08-0014	< >	1	-- Heated Windshield One Piece - COMMANDER Will be switched in Vista on VMUX trucks.
03-08-0102		1	-- Windshield Wiper System Single Motor (2) Wipers - 3D Grille
08-02-0135		1	-- Windshield Wiper Activation Switch on Driver Panel
03-08-0116		1	-- Window Driver Power
08-01-0301		1	-- Power Window Activation, Respective Door
03-08-0118		1	-- Window Officer Power
03-08-022J	>	1	-- Window 5% Tint Driver Crew Door Power
03-08-025M	>	1	-- Window 5% Tint Officer Crew Door Power
03-08-032D	>	1	-- Window 5% Tint Side Middle Driver Fixed 15.5"W x 21.5"H
03-08-037A	>	1	-- Window 5% Tint Side Middle Officer Fixed 15.5"W x 21.5"H
		1	CAB INTERIOR AND TRIM
04-01-0155		1	-- ===11 Raised Cab 60" Interior Trim ===
03-09-8010		1	-- Cab Insulation Interior Ceiling
03-09-8015		1	-- Cab Insulation Engine Tunnel
03-09-8020		1	-- Cab Insulation Cab Damping
04-01-1076		1	-- Interior Trim Color Black, 60"- 11" Roof
04-02-1660		1	-- Interior Trim Polyurethane Coating Black Rear Wall 11"
04-02-1002		1	-- Suspended Throttle and Brake Pedals
04-02-1105		1	-- Interior Floor Covering Color Black, 60"
04-02-1702		1	-- Interior Trim Sun Visor Tinted
04-02-1798		1	-- Cab Coating Interior Color
05-01-1050		1	-- Cab Coating Interior Black Polyurethane
		1	CAB DASH AND ENGINE TUNNEL - 60" LONG
04-03-1050	>	1	-- Cab Dash & Engine Tunnel Alum Dash - Overhead HVAC
04-03-1022	>	1	-- Cab Dash & Engine Tunnel Line-X Coating Black
04-03-2102	>	1	-- Officer Glove Compt - Alum Dash
04-04-1126	>	1	-- Black Plate(s) for Communication Radio
04-04-1176	>	1	-- Black Plate for Siren
04-04-1181	>	1	-- Black Plate for Traffic Advisor
04-04-1201	>	1	-- Black Plate for AM/FM Radio
04-04-1360		1	-- Cup Holders
08-01-0144		1	-- Instrumentation Panel Inlay - Powder Coat Black
		1	CAB EXTERIOR - 60"
		1	CAB HEADER - HEAT AND AC
03-08-4000		1	Cab Header / Heating and AC
05-02-0010	>	1	-- Heating w/ Air Conditioning, Overhead, VMUX
05-01-6010	>	1	-- Cab Paint A/C Condenser on Roof
05-02-0048		1	-- Heater Hose - Rubber
05-02-0200		1	-- A/C Condenser Location Roof Mount Mid Center
05-02-0298		1	-- Cab Circulation Hanging Fans Mid (2) Inboard
05-02-0710		1	-- Auxiliary Coolant Heating System w/Hose Insulation
08-02-0121		1	-- Heat & A/C Activation VISTA, Rear Crew Manual
08-02-0104		1	-- Rear Crew Controls Manual - Rear Facing Driver's or Officer's Side Seat - Remote
		1	SEATS
03-09-0105		1	-- Seat Color Black/Red Seat Belt
03-09-01X1	>	1	-- Seat Driver 911 Seats Inc XL 4-Way Air ABTS

PART NO	S	QTY	DESCRIPTION
03-09-000B		1	-- Dual Retractor Seat Belt - Seats Inc
03-09-0121		1	-- Seat Back Non-SCBA
03-09-02X2		1	-- Seat Mounting Driver Air XL - Seats Inc
03-09-0906		1	-- Seat Material Endurance Vinyl
03-09-0920		1	-- Seat Logo Rosenbauer
03-09-3010		1	-- Driver Seat Box Storage Compartment
03-09-3236	>	1	-- Seat Box Driver & Officer Storage Access Doors (2) Driver/Officer
03-09-024A		1	-- Seat Officer 911 XL Seats Inc Fixed ABTS
03-09-000B		1	-- Dual Retractor Seat Belt - Seats Inc
03-09-011B		1	-- Seat Back SCBA Side Pull Release W/ Zico EZ LOC
03-09-02X5		1	-- Seat Mounting Officer Fixed XL Seats Inc
03-09-0906		1	-- Seat Material Endurance Vinyl
03-09-0920		1	-- Seat Logo Rosenbauer
03-09-3020	S <	1	-- Officer Seat Box Storage Compartment vented door
03-09-033A	>	1	-- Two (2) Outboard Rear Facing Seats - XL
03-09-035A	<	2	-- Seat Crew Rear Facing Outer 911 Seats Inc XL Fixed ABTS Belt Orientation shall pull from outboard shoulder to inboard hip
03-09-000B		2	-- Dual Retractor Seat Belt - Seats Inc
03-09-011B		2	-- Seat Back SCBA Side Pull Release W/ Zico EZ LOC
03-09-038A		2	-- Seat Mounting Rear Facing Outer - XL Seats Inc.
03-09-0906		2	-- Seat Material Endurance Vinyl
03-09-0920		2	-- Seat Logo Rosenbauer
03-09-0409		1	-- NO SEAT(S) OR SEAT BOX - Full Length Rear Wall Kick Plate
03-09-0826	S < >	2	-- Theater Seat - 911 Seats Inc. - Black - Driver & Officer Seats are to be forward facing center.
04-05-1900		1	-- Exterior Grab Handles 18" Aluminum
04-05-1910		1	-- Exterior Grab Handles Bare Aluminum
04-05-2000		1	-- Exterior Grab Handles Aluminum with Stanchions 18"
04-05-2030		1	-- Additional Exterior Grab Handle - Side Forward - Driver Side
		1	CAB FRONT FASCIA
04-08-0010		1	===== Traditional Front with Rectangular Headlamp Bezels =====
04-08-0140		1	-- Front Grille, 3D Stainless Steel
04-08-0022		1	-- Wing Light Bezel - Stainless
04-08-0072		1	-- Front Grille Inlay - Commander - Painted American Flag
04-08-0143	< >	1	-- Grille Mounted Roto-Ray Provision Body division to install the LED Roto Ray
06-03-2010		1	-- Fluid Checks & Fills at Grille L9
08-00-0504	<	1	-- Headlights, LED, Quad, with Rectangular Bezel - JW Speaker Headlights to auto default on
08-00-0540	< >	1	-- Headlight Location - Upper Bucket 104 OS, 105 OS, and 104 DS, 105 DS
08-00-0603		1	-- Front Turn Signals Whelen M6 LED (2)
08-00-0632	< >	1	-- Turn Signal Located Upper Wings 103 OS & DS
08-00-0608	S <	1	-- === NO === Front Marker Lamps Face Mounted LED (Center 3 Lightings, 2 Corner) Front upper marker DOT lights built into Summit scene bar. No holes for DOT light necessary above windshield

PART NO	S	QTY	DESCRIPTION
08-00-061C		1	-- Side Marker Light LED - Chrome (2)
08-01-0304		1	-- Headlight Actv in Smart Wheel; Marker Light Activated Vista
04-08-0151		1	Cab Fender Stainless Steel
04-09-0300		1	Logo, Commander, Cab Sides
04-10-0351		1	Mud Flaps Front
		1	CAB TILT
05-00-0221		1	Cab Tilt System - Heavy Duty w/ Manual Back Up
05-00-0021		1	-- Cab Tilt Limit Switch
05-00-0045		1	-- Cab Tilt Lock Down Indicator
05-00-0100		1	-- Cab Tilt Control Receptacle Temp
		1	REARVIEW MIRRORS
05-00-5005		1	Bus Style Mirrors
05-00-7165		1	-- Ramco-Bus-Drv Dr Mt (CRM-1750CHCHR)-Off Cwl Mt (CRM-1752-A18CHCHR)-H&R,H&M(LWR)C
08-01-0821		1	-- Rearview Mirror Remote & Heat Switch Driver Panel
		1	EXTERIOR CAB PAINT
05-01-5015		1	Cab Paint Exterior Two Tone
05-01-5020	< >	1	-- Cab Paint Upper / Secondary PPG Black 9300 same as previous Lake Elmo Commander
05-01-5021	< >	1	-- Cab Paint Lower / Primary PPG Red 4154 Victory Red same as previous Lake Elmo Commander
05-01-503D	<	1	-- Cab Paint Exterior Breakline - Paint Break D Same as previous Lake Elmo Commander
05-01-6051		1	-- Cab Undercoating
05-01-7000	>	2	-- Paint Spray Out
		1	FRONT AXLE
07-05-010B		1	Front Axle Hendrickson SteerTek 20000#
07-05-0120		1	-- Front Wheel Bearing Lube Oil
07-05-0272		1	-- Front Suspension Hendrickson Parabolic Spring 20K
07-05-0341		1	-- Power Steering Gear TRW TAS 85 w/Assist- 20K and up - L9 Steertek Axle
07-06-0420		1	-- Chassis Alignment
07-06-0522		1	-- Front Cramp Angle 45 Degrees
07-07-014A		1	-- (2) Steer Tires 385/65R 22.5 Michelin X Multiway HD XZE "L"
07-06-0436	>	2	-- Counter Acting Balancing Beads
07-07-0713	>	1	-- (2) Front Alcoa Dura Black Aluminum Wheels 22.5 x 12.25 w/hub and Nut Covers
07-08-0203		1	-- Front Brakes Meritor EX225 Disc 17"
07-05-0316	>	1	4 Spoke Smart Steering Wheel Tilt/Telescopic 18"
		1	REAR AXLE
07-06-0105	>	1	Rear Axle, Single 31500# Meritor RS-30-185
07-06-0252		1	-- Rear Suspension Reyco 79KB Spring 31500# Conventional RS-30-185
07-08-0251		1	-- Rear Brakes S-Cam Drum 16.5" x 7"
07-06-0300		1	-- Rear Shock Absorbers
07-06-0350	>	1	-- Rear Axle Differential Control DCDL single
08-01-0902	>	1	-- Rear Axle Diff Control (DCDL) Activated Vista
07-07-0352		1	-- (4) Rear Tires 315/80R 22.5 Michelin X WORKS XDY "L"
07-06-0436	>	4	-- Counter Acting Balancing Beads
07-07-078F	>	1	-- (4) Rear Wheels Alcoa DURA-BLACK/DURA-BLACK 22.5 x 9.00 w/outer hubs/lugs cover
07-07-0610		1	-- Valve Stem Extension - Single Axle

PART NO	S	QTY	DESCRIPTION
07-07-0996	>	1	-- Vehicle Top Speed 68
07-08-0101	< >	1	-- Antilock Braking System Single Axle w/ air manifold
07-08-0189		1	-- Air Tank Brackets - Hot Dipped Galvanized
07-08-0301		1	-- Park Brake Rear Wheels Only
08-02-0130		1	-- Park Brake Control Driver Dash
07-08-0410		1	-- Wabco System Saver 1200
07-08-0551		1	-- Moisture Ejectors Manual
07-08-0570		1	-- Air Supply Lines Nylon
07-08-0725		1	-- Air Horn Reservoir (1) 1200 Cu In
07-09-001B	>	1	Frame Double Channel 35" Frame Width
07-09-0030	<	1	-- Wheelbase Range 170" - 189" 189"
07-09-0071	>	1	-- Rear Overhang
07-09-0137		1	-- Frame/Front Extension Hot Dip Galvanized
08-09-0200		1	-- Galvanized Frame Warranty BR
07-13-0302		1	-- Tow Hooks Painted - Shipped Loose
		1	ENGINE
06-00-0050		1	-- Engine Placement
06-00-1610		1	-- Engine, Cummins L9, Base Spec, 2021- Commander
06-00-0051		1	-- Cummins L9 Surcharge
06-00-1622	>	1	-- 450HP Cummins L9 - 2021
06-02-1110		1	-- Fan Clutch - L9
06-04-3010	>	1	-- Fan Clutch Programming - Cold Weather Climate
06-02-1526	>	1	-- Auxiliary Engine Brake Compression Brake (JAKE)
08-01-0203	>	1	-- Auxiliary Engine Brake Control On/Off & Low/Med/High Switch Smart Wheel
06-02-2003		1	-- AC Compressor - L9
06-03-1010		1	-- Engine High Idle Speed 1250 RPM
06-03-1023		1	-- Engine High Idle Control Manual & Automatic VISTA
06-05-3010		1	-- Engine Air Intake Filtration and Restriction L9
06-06-3745		1	-- Engine Exhaust System One Piece Officer Side, L9, 2021
06-06-4006		1	-- DEF Tank - Commander
06-06-4100		1	-- DEF Tank Access Fill Door
06-08-0100		1	-- Engine Exh Acc Temp Mitigation
06-08-0200		1	-- Engine Exhaust Wrap
08-02-0140		1	-- DPF Control Regeneration Switch & Inhibit Switch Covered
06-04-2002		1	-- Engine Cooling System- L9
06-04-4010		1	-- Coolant Valve Shut Off Valve w/Connection - For Additional Heater
06-05-1002		1	-- Engine Pump Heat Exchanger L9
		1	TRANSMISSION
07-01-0100		1	-- Transmission Allison 3000 EVS
07-01-0500		1	-- Transmission Fluid - Standard
07-02-0008		1	-- Transmission GEN V-E Push Button Key Pad
07-02-0012		1	-- Transmission 1 o'clock PTO
07-02-0052		1	-- Transmission Mode Programming 5th Startup/5th Mode
07-02-0066		1	-- Transmission Feature Programming I/O Package 198/Pumper
07-02-0251		1	-- Driveline Spicer 1710 HD
07-04-0120		1	-- Fuel Filter/Water Separator Cummins FS1098
07-04-0312		1	-- Fuel Tank 68 Gallon/257 Liter - Dual Fill
07-04-0216		1	-- Fuel Lines Aramid Braid
07-04-0225		1	-- Fuel Shutoff Valve (2) at Filter
07-04-0230		1	-- Fuel Cooler Rearward of Battery Box

PART NO	S	QTY	DESCRIPTION
08-00-0404		1	-- Alternator Niehoff 360A - ISL
		1	ELECTRICAL SYSTEM
08-00-0100	>	1	Electrical System 12V DC Weldon V-MUX
04-04-1312		1	-- (1) Power Point & (1) Dual USB 12V Power Point - Driver's Side
04-04-1332		1	-- (1) Power Point & (1) Dual USB 12V Power Point - Officer's Side
04-04-1350	>	1	-- Officer Map Light
08-01-0071		1	-- Driver & Officer VISTA Display Weldon Vista IV
08-01-0077		1	-- Driver Panel / Switch Panel (6 switches) Under Vista Screen
08-09-0249		1	-- V-MUX WARRANTY - 4 YEAR
08-02-0176	< >	1	-- Assc Power Distribution Panel - 12 Position 40A Batt Dir W/ Ground Please indicate location for Power Distribution panel(s):
08-03-0110	<	1	-- Communication Antenna Base Cab Roof - RBM Supplied Location 302DS
08-03-0231		1	-- Ant Cable Routing Under Dash Panel
08-04-1200	>	1	-- Radio WB/AM/FM/CD - Console Mount
08-04-2100		1	-- Four (4) Speakers
08-02-0610		1	-- Weldon VDR/Seat Belt Warn - VISTA
08-01-001A		1	-- Commander Analog Gauge Aluminum Dash
08-01-0010		1	-- Instrumentation Standard Gauge Panel
08-01-0125		1	-- Instrumentation Backlighting Red
08-00-0340		1	6 Battery System
08-00-0322		1	-- Batteries (6) Group 31
08-00-023A		1	-- Battery Box Driver/Officer Side Hot dipped Galvanized Steel w/Covers - 6 Battery
08-00-0248		1	-- Battery Cables (6)
08-00-0251		1	-- Battery Jumper Studs Front Driver Lower Step
08-01-0034		1	-- 2 Position Battery Master - Driver's Kick Plate
08-01-0036		1	-- Ignition Switch
08-01-0040	>	1	-- Power & Ground Stud 40A Batt Direct / 15A Ignition
08-00-0721		1	-- Ground Lights LED Whelen 3SC0CDCR
08-01-0750	>	1	-- Ground Lights Activation Park Brake & L/R Turn Signal
08-00-0732		1	-- Cab Step Lights LED (1 Per Step)
08-01-0753		1	-- Step Lights Activated Respective Side
08-00-0752		1	-- Interior Door Warning Lights Red 3" LED
08-00-0783		1	-- Engine Compartment Work Light LED (2)
08-00-0792		1	-- Interior Overhead Lighting LED - Blue/Clear
08-00-0815	>	2	-- Add'l LED Dome Lt Blue/Clear - Individual Swtchd
08-00-4060		1	Dr Open/Hazard Wrn Lt, Flashing LED Whelen OS (Do Not Move Apparatus Light)
08-01-2010		1	Back-Up Alarm Ecco 575
		1	HAAS Alert System
08-02-0770		1	-- HAAS Alert System, HA-5
08-02-0775		1	-- HAAS - 5 Year Subscription
08-06-0022	>	1	Camera System with V-Mux
08-06-0011		1	-- Camera System - Chrome Side Cameras
08-06-0170		1	-- Driver & Officer Side Camera, Rear Camera; Driver & Officer Vistas

PART NO	S	QTY	DESCRIPTION
08-08-KM35		1	Battery Chrgr, KUSS 35/10 - Pump Plus 1200 KUSS - 120V Pump
08-08-0001		1	-- Battery Charger Location - Behind Driver's Seat
08-08-0021		1	-- Air Compressor Location - Behind Driver's Seat
08-08-0199		1	-- Automatic Shoreline - 20 Amp
08-08-20AR		1	-- Shoreline, Super Auto Eject, 20A, Red
08-08-06CF	< >	1	-- Shoreline Location Cab FWD, Ahead of Driver's Door
			211DS
08-08-41CS	< >	1	-- Indicator Location Canopy Window - Commander
			216 DS