



# IDYLLWILD FIRE

**Idyllwild Fire Protection District  
54160 Maranatha Drive  
Idyllwild, CA 92549**

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**Special Board Meeting  
AGENDA**

**Wednesday June 15, 2022  
6:00 PM**

Meeting to be held physically at the Idyllwild Fire Protection District conference/training room at 54160 Maranatha Drive, Idyllwild, CA. and by Video/Electronic means via Zoom meetings.

Public access to this meeting can be made physically at the above address (Please note that there may be limited physical occupancy due to social distancing regulations) or by using Zoom meetings @ [Zoom.us](https://zoom.us). The meeting ID # 307-288-7739 The password for this meeting is: 328844.

**Call to Order:** Please silence cell phones and/or pagers.

**Roll call:** Commissioners; President Sawicki; Vice President Messina; Secretary Andrewson; Fogle; Reitz. Staff; Fire Chief Mark LaMont and Administrative Assistant Rachel Teeguarden.

**Pledge of Allegiance:** Please join us in Honoring our great Country.

**Invocation:** TBD

**Citizens' Comments:**

As this is a Special Meeting, Citizens may only comment on the action items found within this Agenda. The Board will maintain the option to limit the time that each individual may speak as well as the total time given. (Board Policy 5030.4.1) Comments and questions are to be directed to the Board Chair.

Citizens making public comments: You are not required to state your name and address; however, it is appreciated for the minutes.

**Reports:**

- o IFPD Fire Chief M. LaMont –  
Alteration to purchasing policy 3135  
T3 Enine Information

**Action Items:**

The Board may approve or act on any item(s) contained under "Action Items". Action Items with guest speakers may be taken out of order at the discretion of the Board.

**Action Item:**

**Staff Recommendation(s):**

1. **Review / Discuss / Approve:**    **Board Policy 3135**                            *Approve as submitted.*
2. **Review / Discuss / Approve:**    **Type 3 Engine (Marion Demo):**                            *Approve as submitted.*
3. **Presentation / Discussion:**        **Educational Opportunity**  
**Mutual Aid /Cost Apportionment:**

**Adjournment:**

***IFPD Regular Board Meeting Schedule for 2022:***  
***January 25<sup>th</sup> / March 22<sup>nd</sup> / May 24<sup>th</sup> / July 26<sup>th</sup> / September 27<sup>th</sup> / November 15<sup>th</sup>***  
***@ 3:00 pm.***

***Upon request, this agenda will be made available in appropriate formats to persons with disabilities, as required by Section 202 of the Americans with Disabilities Act of 1990.***

***Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to IFPD Administrations Office at (951) 659-2153 at least 72 hours in advance of the meeting.***

## **IDYLLWILD FIRE PROTECTION DISTRICT**

**POLICY TITLE:** Purchasing Policy

**POLICY NUMBER:** 3135

All purchases made for the District shall be authorized by the Fire Chief or his/her designated representative. Purchases shall be in conformance with the current Fiscal Year District Budget. Approved purchases must be essential for District Operations.

**3135.1** All purchases which do not exceed fifty dollars (\$ 50.00) shall be purchased using:

- Petty Cash
- District Credit Card
- On Account (vendor must be in good standing on IFPD approved Vendor list).

**3135.2** Purchases of reoccurring/revolving and ongoing goods and services.

**Category One (1)** Items of value from \$0.01 - \$ 500.00. These items to be purchased as needed by approved personnel. The District shall maintain and update a list of authorized Category One (1) purchasers of the following essential items:

- Station Supplies
- Office Supplies
- Medical Supplies
- Equipment (Fire/ EMS)
- Maintenance materials
- Vehicle repairs and maintenance products
- PPE (personal protective equipment)

**Category Two (2)** Items of value from \$ 500.01 - \$ 1,000.00. These items to be purchased as needed by approved personnel. The District shall maintain and update a list of authorized Category Two (2) purchasers of the following essential items:

- Station Supplies
- Office Supplies
- Medical Supplies
- Equipment (Fire/ EMS)
- Maintenance materials
- Vehicle repairs and maintenance products
- PPE (personal protective equipment)

**Category Three (3)** Items of value from \$ 1,000.01 - \$ 2,500.00. These items to be purchased as needed by approved personnel. The District shall maintain and update a list of authorized Category Three (3) purchasers of the following essential items:

- Station Supplies
- Office Supplies
- Medical Supplies
- Equipment (Fire/ EMS)
- Maintenance materials
- Vehicle repairs and maintenance products
- PPE (personal protective equipment)

**Category Four (4)** Items of value from \$ 2,500.01 - \$ 5,000.00. These items to be purchased as needed on an individual case by case basis with prior approval by IFPD Fire Chief / Assistant Chief / Battalion Chief. ALL CATEGORY THREE (3) and Four (4) PURCHASES WILL BE ENTERED INTO A DISTRICT TRACKING SYSTEM WHICH WILL CATEGORIZE EACH ITEM THROUGHOUT THE FISCAL YEAR IN WHICH THE PURCHASE WAS MADE. Each number will correspond with an identifier beginning with the FY in which the purchase was made. Example: Purchase # 1 of a category Three Item in FY / XX/XX:

ID Number	Date	Item	Use	Vendor Tracking #	IFPD	Line Item#	Approved
16170001	7/1/2016	Chain Saw.	BR621	Village Hardware	2016101010	01-101-4000	FCPR

**3135.3 Purchases from \$ 5,000.01 - \$ 10,000.00**

All purchases from \$ 5,000.01 up to \$ 10,000.00 will be individually approved on a case by case basis by the IFPD Fire Chief after consultation and approval by the IFPD Board of Fire Commissioners with the following exception(s):

- Declared Disaster.
- Impedance of Emergency Services Provisions.
- Immediate Action Required.

The IFPD Board of Fire Commissioners President will be notified of any purchase of value from \$5,000.01 - \$ 10,000.00 purchased without prior IFPD Board Approval within 48 hours of purchase. Should the IFPD Board President be unavailable the IFPD Board of Commissioners Vice President will be notified within 48 Hours of purchase. Should the IFPD Board Vice President be unavailable the IFPD Board of Commissioners Secretary will be notified within 48 hours of the purchase. Such notification(s) may initially be made verbally with written notification including the: Date of Purchase, reason for purchase, cost or financial obligation and justification for the purchase without prior authorization to follow on official IFPD Letterhead within five (5) business days.

**3135.4 Purchases exceeding \$ 10,000.01**

All purchases which exceed \$ 10,000.01 will be individually approved on a case by case basis by the IFPD Fire Chief after consultation and approval by the IFPD Board of Fire Commissioners. These purchases will include:

- A detailed report which describes the necessity of the purchase.
- Service life of product purchased.
- A minimum of three (3) qualified Bids from licensed Vendors.
- A report identifying means of payment including full cost (interest/other) of purchase.
- Viable options if any to lessen the impact of purchase.

**3135.5** Receipts and shipping and packing statements for ALL purchases will be delivered to the IFPD Accountant and shall be matched up with internal accounts and controls.

**3135.6 District Vendor List**

Vendors wishing to provide goods and services to the IFPD will be authorized for placement onto the approved vendor list after full and acceptable reference checks proof of legal business practice i.e. business licenses or other acceptable form of legal documentation, cost benefit analysis (providing for best value practice) preferential consideration will be given to local vendors for reoccurring/ revolving and ongoing goods and services.

**3135.7** ALL PURCHASES WILL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS.

**3135.8** ALL FINANCIAL TRANSACTIONS AND PURCHASES WILL BE PRESENTED FOR REVIEW AND APPROVAL BY THE IDYLLWILD BOARD OF FIRE COMMISSIONERS AT REGULAR OR SPECIAL MEETINGS OF THE BOARD.

3135.9 **Board Waiver.** Notwithstanding any provisions of this policy, the Board may waive procurement requirements for Goods and Services upon finding that it is in the district's best interest to do so.

Original Approval Date: 04/10/12

Last revision date: 11/28/2017

Revised Approval Date: 4/27/2021

Reviewed/Revised Date 6/15/2022

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Revised Approval Date:

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Clerk of the Board



# IDYLLWILD FIRE

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TO: Chad Christianson  
Bit Pros Fire Services  
[chad@bitprosinc.com](mailto:chad@bitprosinc.com)  
(760) 532-0211  
(760) 839-2641

June 6, 2022

From: Mark LaMont  
Fire Chief  
RE: 2019 Marion Model 34 Type 3 (DEMO Vehicle)

Chad,

It was a pleasure to meet both you and Curt this afternoon. We certainly appreciate your efforts in bringing the "Marion Build Up" Type 3 up for our folks to look at and test drive. We were all extremely impressed by the build up and appreciate the quality which has obviously gone into the construction of this vehicle.

We also very much appreciate your willingness to work with us in the possibility of purchasing the aforementioned vehicle and we are looking forward to reading through the spec and build up sheets which you will be sending to us.

As discussed, we are excited about the opportunity, and we fully intend to work toward a suitable agreement to purchase the DEMO unit at a price agreed upon during future discussion(s). As I had mentioned in our conversation, I will need approval from the Idyllwild Board of Fire Commissioners to move forward with the potential purchase of the vehicle. I am currently working on setting up a Special Meeting for the Board of Commissioners to discuss this item and will let you know when this meeting is scheduled.

Again, thank you for working with us on this opportunity. Please forward the vehicle information, spec sheet, build plan and asking vehicle price for inclusion into the Boards meeting and discussion.

Sincerely,



Mark LaMont

Fire Chief

Idyllwild Fire Protection District

(951) 659-2153 Office

[marklamont@idyllwildfire.com](mailto:marklamont@idyllwildfire.com)

**BIT PROS**

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**EST. 2007**

**Midland Model 34 Apparatus  
In Stock & Ready for Delivery!**



**Priced at \$424,500.00**

*plus pre delivery inspection, license and registration fees, shipping  
of the apparatus from BIT Pros Fire Services to your department.*

**For further details contact Chris Kenner.  
Cell: 530-592-6885 Email: [chris@bitprosinc.com](mailto:chris@bitprosinc.com)**



Marion 7400 (4X4) Type 3

Purchase Options:

KS Bank Financing:



**IDYLLWILD FIRE**

Option:	Ranking \$	Purchase Price	Down Pmnt	Principal Balance	Annual Payments	Total Pmnts	Total Cost
1	2	\$349,500.00	\$50,000.00	\$299,500.00	\$49,991.82	7	\$349,942.74 <b>\$399,942.74</b>
2		\$349,500.00	\$50,000.00	\$299,500.00	\$37,146.55	10	\$371,465.50 \$421,465.50
3		\$349,500.00	\$50,000.00	\$299,500.00	\$27,543.57	15	\$413,153.55 \$463,153.55
4	1	\$349,500.00	\$100,000.00	\$249,500.00	\$41,645.94	7	\$291,521.58 <b>\$391,521.58</b>
5	3	\$349,500.00	\$100,000.00	\$249,500.00	\$30,945.13	10	\$309,451.30 <b>\$409,451.30</b>
6		\$349,500.00	\$100,000.00	\$249,500.00	\$22,945.31	15	\$344,179.65 \$444,179.65





Comparisons



**IDYLLWILD FIRE**

Manufacturer	Marion Type 3	KME	Westmark	BME	Pierce
Department	IFPD	Monterey Fire Dept.	Boulder Creek	OES	Paso Robles

COST:	\$349,500.00	\$410,000.00	\$400,500.00	\$395,000.00	\$495,000.00
Average cost:	\$425,000.00	\$425,000.00	\$425,000.00	\$425,000.00	\$425,000.00
Difference:	-\$75,500.00	-\$15,000.00	-\$24,500.00	-\$30,000.00	\$70,000.00

New Build Estimates:					
	Marion	KME	Westmark	BME	Pierce
2022+ EST:	475000-510000	495000-525000	485000-510000	480000-500000	525000-550000
Savings from New:	\$160,500.00	\$175,500.00	\$160,500.00	\$150,500.00	\$200,500.00
Build time Est:	18-24mo	24mo	18-24mo	24+mo	24+mo



## FOR IMMEDIATE RELEASE

**DATE:** May 17, 2021

**PHONE:** (831) 646-6957

**CONTACT:** Gaudenz Panholzer, Fire Chief

**E-MAIL:** panholzer@monterey.org

### **CITY COUNCIL APPROVES PURCHASE OF A NEW TYPE 3 WILDLAND FIRE ENGINE TO KEEP THE REGION AND STATE PREPARED FOR PROJECTED BUSY WILDFIRE SEASON** *Monterey Fire also replaces two other model year 2002 engines*

Monterey, CA. – Timing played an important role when the City of Monterey Fire Department came upon an opportunity to replace an aged Type 3 wildland engine received via a grant from the *Fort Ord Reuse Authority* 17 years ago. A typical lifespan of a rigorously used fire engine is 15 years. With longer and more devastating wildfires happening throughout the state for several years now, the wildland engines are used extensively for mutual aid throughout the state. When resources are sent out on statewide mutual aid assignments, the City is reimbursed the cost of staff and for the use of vehicles. Over the past seven fiscal years, reimbursements for vehicles have been nearly \$575,000, the majority of which has been credited to the City's Equipment Replacement Fund.

The Monterey City Council at the May 4, 2021 City Council meeting appropriated \$410,000 for the purchase of an additional Type 3 Wildland Fire Engine using the Equipment Replacement Fund. The existing Type 3 engine will remain in the active fleet as an additional asset to be used for wildfires. This month, the National Weather Service reported record-breaking dry vegetation in California, including the Central Coast. CAL FIRE recently reported a 700% increase in the number of acres that have already burned this year compared to this time last year.

City Manager Hans Uslar said, "We all remember the lightning storms last summer that

*(more)*

triggered numerous wildfires, disrupting lives, causing significant evacuations and property damage. We are making sure we continue to be equipped locally to protect our communities, and also statewide, should other agencies need our help.”

“There are many timely bonuses to obtaining this important firefighting apparatus,” said Monterey Fire Chief Gaudenz Panholzer. “The engine’s specifications meet the CAL FIRE standards, which also means parts and service will be readily available, and it was already in production but not yet purchased so we are able to get it as soon as this July.”

In April, the Fire Department also took possession of two new fire engines, which were approved by the City Council in 2020. The two new engines are a great addition to the department’s fleet as they are outfitted with all the modern safety features to keep the firefighters and the public safe in the event of an emergency. The engines they are replacing have served the city well for over 20 years.

Monterey Fire Department, which serves Monterey, Pacific Grove, Carmel-by-the-Sea, Sand City, Naval Postgraduate School, La Mesa Village and Monterey Regional Airport, also just added two new water tank engines to serve the community, pushing the current 2002 engines to reserve status.

*Photos below are of the current wildland fire truck to be replaced, and the two new E12 and E13 engines. More fire apparatus can be found at*

<https://monterey.org/fire/Operations/Fire-Apparatus>

64433



(Current Wildland Fire Engine since obtained through a FORA grant, 2004.)

<https://www.monterey.org/Portals/5/Images/APP-6433-Type-3.jpg>



BC to get a new Wildland Type 3 fire engine

News Press Banner

# New Boulder Creek fire engine ready to tackle tough terrain

By: DAVID LELAND  March 9, 2018

Less than two years after residents overwhelmingly adopted a \$35 a year parcel tax to increase safety for the Boulder Creek Fire Protection District, a new engine is on the way.

Manufactured by West Mark, the \$400,500 Wildland Type 3 engine is ideal for fire protection off road in the rugged hills in the San Lorenzo Valley.

“There’s not one person I spoke to that had a problem with aspects of this engine,” said Boulder Creek Fire Department Chief Kevin McClish, adding that the new fire-proof paint adds to additional safety. “We don’t even have to worry about falling embers.”

The 34-member volunteer Boulder Creek fire department covers 21 square miles of mountainous terrain and serves approximately 15,000 citizens. Many people who live in Boulder Creek and Brookdale don’t realize they are protected by a volunteer fire agency, whose dedicated volunteers provide the same level of service as a paid fire department.

The firefighters come from all walks of life and respond to more than 800 service calls annually.

When McClish presented Measure N to Boulder Creek and Brookdale residents in the fall of 2016, he

mountainous tire calls.

McClish noted that some property insurance cost increases are based in part on the local fire department's ability to respond quickly with modern equipment.

The 30-year parcel tax will be used to purchase fire engines, protective clothing and breathing apparatus.

The measure was approved by 83 percent of area voters.

Able to pump 500 gallons per minute, the 4-wheel drive Wildland 3 carries three batteries, has lift-up doors and carries a 16-foot ladder able to reach three stories high.

Engines produced by West Mark have become the industry standard, and are used by stations including Santa Barbara, San Luis Obispo, Ventura County, La Honda and Contra Costa.

The district's board of directors unanimously approved a resolution Thursday, March 1 to purchase the Wildland 3 engine, which should be delivered in about 13 months, McClish said.



[FIND A DEALER](#)

\* 26 ENGINES 9,862,000  
 = 394,480<sup>00</sup> EACH

## BME Receives Tag-On from Cal OES

APRIL 22, 2019 · BLOG



Boise Mobile Equipment (BME) received a \$9.8 million dollar tag-on to produce Wildland Model 34 engines for the California Governor's Emergency Services (Cal OES). BME will produce twenty-five CAL FIRE spec Model 34 apparatus to be delivered in 2020.

Cal OES coordinates fire mutual aid resources throughout the state of California. The agency responds to a wide range of disasters, making Model 34 engine a highly important asset.

The BME Model 34 apparatus is built to handle the toughest terrain. Its rugged durability allows firefighters to respond to both wildland and provide structure protection in the wildland-urban interface, navigating rough roads and narrow driveways that pose problems for urban areas.

BME has over twenty-nine years of experience producing wildland apparatus for state and federal government agencies. BME engines are essential in the fleets of California Department of Forestry and Fire Protection, the United States Forest Service, the United States Department of Land Management, and the United States Department of Fish and Wildlife.

Interested in tagging on to the CAL Fire order? Email us at [sales@bme-fire.com](mailto:sales@bme-fire.com) or visit our [wildland page](#) for more information.

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## BME FIRE TRUCKS





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## RECENT NEWS

-  [Infrastructure Bill: How it Affects Wildland Firefighters](#)  
April 30, 2022
-  [BME Receives Contract From the State of California](#)  
April 21, 2022
-  [What Causes Wildfires and How to Prevent Them](#)  
March 27, 2022
-  [Wildland Firefighter Pay](#)  
March 1, 2022
-  [Why are Fire Trucks Red?](#)  
February 23, 2022

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How can we help you?



*El Paso*  
*de Robles*  
California

## Paso Robles Fire News

Posted on: February 23, 2022

### New Type III Fire Apparatus Placed in Service

This specialized fire engine is designed to respond to wildland fires that pose a risk to the community of Paso Robles and across the State of California.

PASO ROBLES, CA – Paso Robles Fire and Emergency Services recently took delivery of its first Type III fire engine in the department's history. The Paso Robles City Council approved the purchase of the fire apparatus built by Pierce Manufacturing INC. on February 16, 2021. The engine was placed in service for emergency response on Feb. 19th, 2022.



This specialized fire engine is designed to respond to wildland fires that pose a risk to the community of Paso Robles and across the State of California. In 2021 Paso Robles Fire and Emergency Services

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with difficult terrain and is equipped with specialized equipment for combatting wildland fires. Due to the drought conditions we have experienced over the last few years, wildfires locally and throughout the state are accelerating at unprecedented rates. The rapid growth of these wildfires is even stunning many of us that have been doing this for a very long time. The addition of this specialized apparatus to augment our response capabilities is a significant milestone in serving our community,” said Chief Stornetta.

The engine is also well equipped and prepared for other types of emergency responses including Medical Aids, Structure Fires, and Vehicle Accidents.

On Monday Feb. 21st, 2022, the engine was dispatched to a vegetation fire off North River Rd. with difficult access. Due to the 4x4 capabilities, the crews were able to safely access and extinguish the fire.

On Tuesday morning Feb. 22nd the engine was dispatched to a second vegetation fire in the Salinas Riverbed.

###

Media Contact Name: Scott Hallett

Title: Battalion Chief

Phone: (805) 286-5820

Email: [shallett@prcity.com](mailto:shallett@prcity.com)

[← Previous](#)  
[Vegetation Fire](#)

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[Multi-Family Residential Structure](#)  
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## Other News in Paso Robles Fire News

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### [Weed Abatement Inspections Begin May 1](#)

Posted on: April 28, 2022



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### [Vegetation Fire](#)

Posted on: March 22, 2022



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TYPE III

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# QUOTATION

West Coast Demo

Exp. Date: 08/19/2017  
 Quote No: SHOW-0001  
 04/06/2018

PART NO	S	DESCRIPTION	QTY	ID
		<b>== Pumper, Midship &amp; Top-Mount - 0.000 ==</b>	<b>1</b>	<b>MBW</b>
01-60-0110	S	Pumper, Side-Mount, Stainless	1	MBW
02-01-1023		Options for Commercial Chassis Only (International)	1	MBW
02-01-3042		Pumper, Stainless Package	1	MBW
02-05-1200		Approval Drawings (STD-P)	1	MBW
02-07-1000		Third Party Testing (STD-P)	1	MBW
02-07-1300		Third Party Testing (PTO Pump)	1	MBW
02-10-1000		Performance Requirements	1	MBW
		Angle of approach should be no less than 30 degrees (fully loaded).		
		Angle of departure should be no less than 24 degrees (fully loaded).		
03-00-1510		Chassis Package, International	1	MBW
05-03-0000		Chassis Modifications	1	MBW
05-05-1000		Bumper Ext, Med Duty Chassis, Existing Frame Length	1	MBW
05-05-2700	S	Hose Well In Front Bumper Extension, Center Well to not extend below the front bumper.	1	MBW
		The hose well shall be as large as practical with storage for a minimum of 100' of 1.75" soft suction hose with combination nozzle and screwed directly into the platform extension.		
05-05-2701	S	Hose Well In Front Bumper Extension, Curbside Well to not extend below the front bumper.	1	MBW
		The hose well shall be as large as practical with storage for a minimum of 100' of 1.75" soft suction hose with nozzle and screwed directly into the platform extension.		
05-05-2702	S	Hose Well In Front Bumper Extension, Roadside Well to not extend below the front bumper.	1	MBW
		The hose well shall be as large as practical with storage for a minimum of 100' of 1.75" soft suction hose and screwed directly into the platform extension.		
05-05-3010		Hosewell Cover, Aluminum Treadplate, Notched Locate on center front well.	1	MBW
05-05-3080		Hosewell, Straps To Secure Hoseload Locate on roadside front well.	1	MBW
05-05-3080		Hosewell, Straps To Secure Hoseload Locate on curbside front well.	1	MBW
05-16-5000	S	Bumper, Chassis Supplied	1	MBW
05-20-3045	S	Cab Step, Modify Chassis Step	1	MBW
05-20-4840	S	Cab Step, Fuel Tank, Modify Chassis Step Provide a removable skid plate fastened to the bottom on the fuel tank. Skid plate to	1	MBW

PART NO	S	DESCRIPTION	QTY	ID
		be painted frame color.		
05-20-6000	S	<p>Compartment, Cab Step (4-Door Chassis)</p> <p>One (!) compartment fabricated as large as possible shall be furnished in the curbside cab step area and located in the vertical panel between the cab entrance step and the cab door jamb.</p> <p>Vertically hinged double doors with D-ring handle and no center post shall be provided to gain access to the compartment. The compartment to have a divided section for storage of two (2) chock blocks. The chock block section shall feature a flat aluminum threshold to prevent the chock from sliding out when the compartment door is opened. The chock block section shall be located behind the first opened door in the forward portion of the compartment.</p> <p>The interior compartment dimensions shall be 37.75" wide x 16.75" high x 8" deep lower, 17.75" deep upper.</p>	1	MBW
05-25-0300		Fuel Tank Label, Commercial Chassis (STD)	1	MBW
05-30-3000		Air Outlet	1	MBW
05-35-1700		Apparatus Information Label (STD)	1	MBW
05-35-1710		Helmet Label, Per Seat (STD)	1	MBW
05-35-3300		<p>Chassis Exhaust, Pumper/Aerial (STD)</p> <p>Exhaust to be routed as high as possible.</p> <p>Heat shielding shall be added as needed.</p>	1	MBW
05-40-0000	S	<p>Front Tow Eye</p> <p>A horizontal full frame width, .75" thick steel plate, center pull, front tow eye shall be furnished and installed through or below the front bumper. The tow eye plate shall be triangle shaped extended 6" beyond the front bumper with 3"x4" rectangular tow eye. The tow eye must be braced and gusseted to prevent frame rail or bumper damage and bolted to the front frame rail web with eight (8) .625" SAE Grade 8 frame bolts and lock nuts.</p>	1	MBW
05-40-1000	S	<p>Rear Tow Eyes, Under Step</p> <p>A single, frame mounted 3" x 4" diameter, rear towing eye shall be furnished at the rear of the body under the step and shall be bolted to the truck frame rails. The subframe shall be adequately reinforced to allow the vehicle to be towed (not lifted) from the rear tow eyes. Access to the tow eye shall be below the bumper and designed not to interfere with the required angle of departure.</p>	1	MBW
05-40-3000		Rear Tow Eyes, Powder Coat Black	1	MBW
05-40-3159		Galvanized, Drop Frame	1	MBW
05-42-1000		Rear Spring Shackle Access	1	MBW
05-42-3200		Fluid ID Plate, Cab Display	1	MBW
05-45-1000		Mudflaps, Rear	1	MBW
05-50-2000		Tire Pressure Monitoring Device	1	MBW
05-52-4000	S	Map Storage Box, 3 Slot, Aluminum	1	MBW
05-53-2025		<p>Power Lead &amp; Ground, 12-Volt, Constant Power</p> <p>Terminate in the cab floor console.</p>	1	MBW
05-53-2035		<p>Power Lead &amp; Ground, 12-Volt, Power Through Battery Switch</p> <p>Terminate in the cab floor console.</p>	1	MBW
05-53-2100		<p>Outlet, 12-Volt, Located in Cab</p> <p>Locate in the cab floor console.</p>	2	MBW
05-60-7500	S	<p>Storage Compartment Under Seats</p> <p>There shall be a fully enclosed storage compartment under under the rear crew seats. There shall be a vertically hinged door installed on the outboard sides and two (2) horizontally hinged, drop down doors on the front face of the storage compartment</p>	1	MBW

PART NO	S	DESCRIPTION	QTY	ID
		<p>under the rear crew seats.</p> <p>The under seat compartments and doors shall be a minimum of .125" DA finished aluminum.</p>		
05-72-1005		Helmet Holders (EA) - (Marion Supplied & Installed)	1	MBW
05-80-0700		Remove Headliner (Commercial Chassis)	1	MBW
10-02-2800		ADDITIONAL PLUMBING OPTIONS	1	MBW
10-02-3010	S	<p>Pump, PTO, Waterous CPK3, 500 gpm, 2 Stage</p> <p>The electrically driven priming pump shall be an oil-less system. One (1) priming control, located at the pump operator's position and an additional push button switch located in the in-cab center console, shall open the priming valve and start the priming motor. The primer shall prime both the main pump and auxiliary pump simultaneously.</p>	1	MBW
10-02-5000	S	Manifold For Multiple Discharges	1	MBW
10-03-4000	S	<p>Pump, Auxiliary, Waterous E511-C</p> <p>This pump will be located in the dunnage area, curbside.</p> <p>The auxiliary pump shall be plumbed in common with the main pump and shall only provide discharge pressure and foam concentrate to all 1" and 2" discharge valves.</p> <p>A Stainless Flow Technologies (SFT) or equal, 2" one way full flow check valve shall be installed in the auxiliary pump suction hose as close to the tank sump as possible to ensure that the auxiliary pump remains primed at all times.</p> <p>A louvered hinged cover with latches shall be provided over the pump and power assembly. The area around the assembly shall remain open for maintenance and air circulation and the radiator shall be located behind a removable or swing-away expanded metal screen.</p> <p>A .5" crankcase oil drain extension line routed below the frame to facilitate oil changes, with Aeroquip style hose, threaded fittings, and drain plug shall be provided.</p>	1	MBW
10-03-9900	S	<p>Auxiliary Pump Controls</p> <p>An auxiliary pump control panel and a back lighted pressure gauges shall be provided inside the cab, located in an area readily accessible to the driver.</p> <p>The auxiliary pump engine control switches shall be marine grade weatherproof toggle type switches. The apparatus electrical system (Master Switch) shall provide the power for the operation of the auxiliary pump assembly.</p> <p>The wiring for the auxiliary pump assembly shall be run in a separate loom isolated from the main apparatus wiring loom. The pump engine ignition circuit shall be wired so that the pump may be started from either control panel without regard to the position of the same switch at the other location.</p> <p>The in-cab and left pump panel controls shall each consist of the following:                      Vernier cable type adjustable throttle controls on both pump panels.                      Ignition and kill switch                      Ignition "on" green panel light                      Low oil pressure indicator lamp                      Coolant overheat indicator lamp                      Pump pressure gauges.</p>	1	MBW
10-07-9900	S	<p>Check Valves</p> <p>Stainless steel spring loaded full flow one way check valves shall be provided to isolate the auxiliary and main pump pressure from each other and to ensure that the auxiliary pump does not loose prime.</p>	1	MBW

PART NO	S	DESCRIPTION	QTY	ID
		The pump suction line shall have a 3" stainless steel full flow check valve to prevent back flow to the booster tank.		
10-20-0525		Anodes, Waterous Pump Provided on both the E511-C and CPK3-500 pumps.	2	MBW
10-26-3000		Drive Unit, Waterous	1	MBW
10-26-5500		Pump Shift Indicators	1	MBW
10-26-8075		Pump Shift, Electric	1	MBW
10-35-2000		Drive Line	1	MBW
10-35-4000		Auxiliary Cooling System	1	MBW
10-35-5500		Overheat Protection Manager, Waterous OPM	1	MBW
10-35-7000		3/8" Circulating Valve One circulating valve for the main pump and one for the auxiliary pump.	2	MBW
10-35-9020	S	Manually Operated Transfer Valve, Waterous Controls shall be mounted on the roadside pump panel., featuring indicator lights and nomenclature plates that identify the respective pressure and volume mode.	1	MBW
10-37-2000		Master Drain Valve	1	MBW
10-37-3200		Drain Valves, Quarter Turn	1	MBW
10-41-3100		Intake Relief Valve, (STD-W) The discharge pipe shall terminate with a 2.5" NST male adapter and labeled "Do Not Cap".	1	MBW
10-48-4065		Pump Piping, Stainless & Akron, Waterous Pumps	1	MBW
11-05-2350	S	Main Suction Inlet, 4", Waterous, Roadside	1	MBW
11-40-2000		2.5" Auxiliary Inlet, Road Side (STD) Plumbing to be 3".	1	MBW
11-40-3500		2.5" Auxiliary Inlet, Curb Side, Controled at Valve Plumbing to be 3".	1	MBW
11-40-9000		Label, Valved Inlet	1	MBW
11-60-9000		Reducer, 3" NSTM X 2.5" NSTF With Plug	2	MBW
13-01-8000	S	Back Pump Filler Valve A Class 1 brass, 3/4", quarter turn ball valve with chrome T-handle shall be supplied and labeled "Back Pump Filler". The valve shall be installed on the left lower forward side of the pump panel with the discharge hose terminating at the outside of the apparatus body. The valve plumbing shall be 3/4" I.D. Aeroquip type hose with swivel fittings properly routed and clamped from the tank sump to the filler valve.	1	MBW
13-04-0010		2.5" Discharge, Swing Valve Control, Road Side Plumbing to be 3".	1	MBW
13-04-0600		2.5" Discharge, Curb Side Plumbing to be 3".	1	MBW
13-20-2000	S	1.5" Discharge, Rear Locate below the curbside hose bed.	1	MBW
13-22-2000	S	1.5" Discharge, Front Bumper Swivel On Extension Roadside The discharge swivel location shall provide adequate clearance for the use of a 1.5" gated wye.  The swivels shall be an Elkhart #348, 90 degree swivel with chrome cap and chain and shall feature stops to prevent it from rotating 360 degrees and impacting the hood.	1	MBW
13-22-2010	S	1.5" Discharge, Front Bumper Swivel On Extension Curbside The discharge swivel location shall provide adequate clearance for the use of a 1.5"	1	MBW



PART NO	S	DESCRIPTION	QTY	ID
		gated wye.		
		The swivel shall be an Elkhart #348, 90 degree swivel with chrome cap and chain and shall feature stops to prevent it from rotating 360 degrees and impacting the hood.		
13-30-1000	S	Crosslay, 1-1/2"	2	MBW
13-30-6300		Crosslay Cover, Hinged Aluminum Treadplate	1	MBW
13-30-6800		Crosslay End Covers, Mesh Guard, 1" Web	1	MBW
15-10-2300	S	Reel, Booster Above Pump, Aluminum	1	MBW
		One (1) SBSEPF17-28-29RT Hannay booster reel shall be located over the pump in the recessed dunnage area, roadside. The reel shall have an all-aluminum frame and drum with polished aluminum discs. It shall also have plated drive chain, sprocket, hub assembly, swivel joint and fastenings. The reel shall have a capacity of 150 ft. of .75" hardline hose. Reel to have a 12 volt motor driven rewind with a guarded finger type push button switch, no higher than 72" from the ground on each side of the pump compartment. A label will be provided next to the rewind switch that states the reel type. A 50 amp circuit breaker shall be provided to prevent motor overload. A manual vertical rewind with removable crank handle shall also be provided.		
		Reel shall be fed through a 1/4 turn, full flow, drop out, self-locking type valve and 1" full flow wire reinforced high pressure hose. Two (2) stainless steel guide rollers with vertical spools on each end shall be furnished to aid in deployment of the hose. Two (2) additional sets of rollers and spools shall be located on the auxiliary pump cover for guiding the hose across the top of the apparatus.		
15-60-0515		Foam System, FoamPro 1600	1	MBW
15-60-4000	S	Foam System, FoamPro 1600 (Class A Only)	1	MBW
		All 2" discharge valves including the hose reel while operating either the main or auxiliary fire pumps.		
		For firefighter safety an ASCO valve, part #8262H001-12V D/C shall be installed in the 2" discharge manifold after the foam system check valve to discharge trapped manifold water pressure upon pump shut down.		
15-60-8900		Foampro Power Foam Fill	1	MBW
15-60-9890		Foam System Certification	1	MBW
17-10-2050	S	3" Tank to pump Line, Air	1	MBW
		The piping from the tank to pump shall be one (1) 3" line. Valve to be 3" 1/4 turn ball type with control at the pump operator's control panel. The valve shall be actuated with an air cylinder. A flexible line shall be used between the tank sump and the tank to pump valve. A check valve shall be included in the tank to pump line.		
17-15-1000	S	Drain Valve 1.5" In Sump, 1/4 Turn	1	MBW
17-20-1000		1" Tank Fill	1	MBW
17-20-3000		2" Tank Fill	1	MBW
17-40-3000		Tank Fill Rear, Direct 2.5", Ball Valve	1	MBW
		Locate on the rear of the body, roadside.		
18-10-1020		Pump Compartment, Midship (SS)	1	MBW
		Minimum pump compartment ground clearance to be 20".		
18-20-130A		34" - 37" Side Mount Pump Compartment	1	MBW
18-20-2000		Pump/Gauge Panels, Brushed Stainless, Midship	1	MBW
18-25-9900	S	Pump Panel Compartment, Curbside	1	MBW
		A vertically hinged side door compartment shall be provided and located between the right pump panel and the body. The door shall be painted to match the body color. The compartment to be approximately 24.85" wide x 23" high x 15" deep.		

PART NO	S	DESCRIPTION	QTY	ID
18-30-0000		Pump Panel Drawings	1	MBW
18-60-1000	S	Running Boards (STD) The running boards shall be 8" deep.  Minimum running board ground clearance to be 20".	1	MBW
18-62-0599		SELECT RUNNING BOARD HOSE WELLS (If Required)	1	MBW
18-80-2500		Valve Controls (Midship) I.C.	1	MBW
20-02-1035		Pump Panel Lighting, LED, TecNiq #E10	1	MBW
20-02-2035		Light Shield, On Curb Side, LED, TecNiq #E10	1	MBW
20-04-5000		Identification Plates, Pump Panel	1	MBW
20-04-7000		Label, Warning Pump Operator	1	MBW
20-25-2410		FRC Pump Boss, Commercial Chassis	1	MBW
20-27-1000		Pump Operator's Control Panel (STD)	1	MBW
20-27-3110	S	Master Gauge Panel	1	MBW
20-27-6500	S	Auxiliary Pump Pressure Gauges Two (1) 2.5" white faced, stainless steel cased individual pressure gauges, one (1) liquidless on the pump panel and one (1) liquid filled in the cab within clear view of the driver's position shall be provided for the auxiliary pump. The gauges shall be 0-400 PSI and have a white face with black numerals. The 2.5" gauge in the cab to be red LED backlighted. The light shall be controlled by the auxiliary pump ignition switch and both gauges shall be properly labeled as to their function.	1	MBW
20-30-4600	S	Engine Info Integral Display For the auxiliary pump. Locate one in the cab and one on the left pump panel.	2	MBW
20-40-5000		Hour Meter On Gauge Panel For Pump Hours One shall be used for the Waterous CPK3-500 pump and shall be labeled "Main Pump Hours".  One shall be used for the auxiliary Waterous E-511 A pump and shall be labeled "Auxiliary Pump Hours".	2	MBW
20-40-8010		Pump Panel Switch Control Panel	1	MBW
20-40-8500		Alarm, Audible, for Enfo IV For the auxiliary pump. Locate one in the cab and one on the left pump panel.	2	MBW
20-45-0000		Package, Throttle & Pump Indicator Light For the auxiliary pump. Locate one in the cab and one on the left pump panel.	2	MBW
20-45-1000		Pump Gauge Adapter	1	MBW
20-48-2000		Third Party Acceptance Plate	1	MBW
20-48-3000		Pump Identification Nameplate	1	MBW
20-79-1000		Water Level Indicator, Class 1, ITL-40M One on the roadside pump panel and one in the cab.	2	MBW
20-79-4700		Foam Level Indicator, Class 1, ITLF-40M	1	MBW
22-10-0050		500 Gallon Tank	1	MBW
22-20-1010	S	500 Gallon Tank, Upf Poly III A one (1) cubic foot (minimum) polypropylene sump, with anti-swirl baffles shall be provided. The sump shall be located as close to the center of the tank floor as the chassis crossmembers, differential driveline will allow.  One (1) 3" or 4" NPT outlet plug shall be provided in the sump floor for flushing of the tank. In addition, four (4) 3" (minimum size) clean outs and plugs shall be located on the top of the booster tank, above each baffled compartment to assist in manual flushing of the tank and shall be accessible by removing the hose bed slats.	1	MBW
22-40-4000		Tank Vent/Overflow 4" (STD)	1	MBW
22-50-1000		Tank Warranty, UPF	1	MBW

PART NO	S	DESCRIPTION	QTY	ID
22-50-5020		Tank Mounting (S)	1	MBW
22-60-2000	S	20 Gal Foam Tank - Integral Poly III, Class A A 3/4" brass foam tank drain valve and hose shall be provided to completely drain and flush the foam tank. The drain hose shall terminate below the roadside pump panel and have a brass or stainless steel swivel fittings at the drain valve to facilitate valve removal. The control shall be located on the lower side of the roadside pump panel and be labeled "Foam Tank Drain".	1	MBW
24-05-1002		Hose Bed, STD Width	1	MBW
24-05-9000		Hose Load Requirements 500' of 3", 1000' of 1.5", 150' of preconnected 1.5" hose, and 200' of 1.75" preconnected DJ hose with combination nozzle.	1	MBW
24-10-0500		Hose Bed Divider Curbside of center.	1	MBW
24-30-1000		Hose Bed Cover, Hinged .125" Aluminum Treadplate	1	MBW
25-05-0000		Body Specification	1	MBW
25-05-2520		Body Construction (S-P)	1	MBW
25-10-4520		Crossmembers (S-P)	1	MBW
25-15-4020		Uprights (S-P)	1	MBW
25-25-4020		Corner Posts (S-P)	1	MBW
25-40-5010		Rubrails, Extruded Channel - Pumper	1	MBW
25-45-5000	S	Stone Shields, Full Ht Front Shields are to be brushed stainless steel construction and wrap around the corner posts.	1	MBW
25-50-1500		Body Guards (STD-P)	1	MBW
25-55-0500		Fenders (STD)	1	MBW
25-55-3000		Fenderettes, Black Rubber	1	MBW
25-55-6500		Fender Panel, Smooth Painted, Welded On	1	MBW
25-70-4020		Hose Body Sides (S-P)	1	MBW
25-80-4010		Body Mounts, Nylon Sills	1	MBW
27-10-1000	S	Compartment Vents Vents shall be provided in each compartment and so located that water cannot normally enter the compartment through the openings. Vents shall 2" "Weber" style polished stainless steel swivel vent with four (4) .25" vent holes in the wall of the compartments except the under cab boxes. These vents shall have a stainless steel center bolt to lock the vent in either the open or closed position and be located in the upper rear area of the compartment walls. Each compartment shall have sufficient vents to provide good air circulation to dry out compartment interiors and equipment.	1	MBW
27-15-0520		Exterior Compartment (S)	1	MBW
27-15-4020		Compartment Floors (S)	1	MBW
27-20-2000		Grating, Mateflex, 28" Max Depth	1	MBW
27-30-2020		Compartment Walls (S)	1	MBW
27-40-1851		Swing Doors, Rear Compartment, Pumper	1	MBW
27-40-1855		Stainless Steel Rear Compartment Door	1	MBW
27-40-1998		Door Construction (SS)	1	MBW
27-40-2005		Door Hardware (STD)	1	MBW
27-40-2005		Door Hardware (STD)	1	MBW
27-40-2009		Door Construction, Rear Compartment, SS	1	MBW
27-40-2026	S	Double Door, Swing 62"H x 40"W, Rear Compt., Pumper	1	MBW
27-40-3000		Key Locking Compartments, Swing Doors	11	MBW
27-40-407G	S	Double Doors w/Lift up WW, 40" High Side, Split Depth, R.S.	1	MBW
27-40-408G	S	Double Doors w/Lift up WW, 40" High Side, Split Depth, C.S.	1	MBW
27-50-1000		Door Holders (STD)	1	MBW
27-50-1000		Door Holders (STD)	1	MBW
28-10-0010		AUXILIARY STEPS	1	MBW
28-10-1500	S	Rear Bumper Step, 8" Deep, Full Width	1	MBW

PART NO	S	DESCRIPTION	QTY	ID
28-10-6200	S	Step, Fixed Surface Mounted W/ Light Locate on the rear of the body.	4	MBW
28-25-2700		Trailer Hitch, Reese, (5001 - 10000 Lbs) The hitch tube to be offset per reference photos.	1	MBW
28-25-2800		Receiver-Hitch, Front, (5001 - 10000 Lbs) The hitch tube to be offset per reference photos.	1	MBW
28-40-1505		Access Rail 12" Locate access rail mounted horizontally access the upper rear edge of the suction hose/ladder compartment in the hose bed and on the pump compartment, each side.	3	MBW
28-40-2000		Access Rail 24" Locate on the rear edge of the hose bed covers.	2	MBW
28-40-2700		Access Rails 36" (STD-P & RS)	1	MBW
31-50-5000		Compartment Top Overlay/Drip Rail (Alum)	1	MBW
32-05-0900	S	Paint Body (Pumper) Body to be painted to match Sikkens 2303 red.  All compartment door interiors to be painted to match the body color.	1	MBW
32-05-0901	S	Paint Body (Pumper) C.S.	1	MBW
32-05-2000		Paint Pump & Pump Compartment Job Color	1	MBW
32-05-9900	S	Non-Skid Coating An epoxy coating shall be provided on the bumper tow eye, top of the ladder/hard suction compartment, and all other surfaces with the potential to be walked or stepped on, except the hose bed covers.	1	MBW
32-10-0500		Un-painted Cab (STD)	1	MBW
32-20-1000	S	Compartment Finish, Linex (Pumper)	1	MBW
32-20-2850		Shelf & Tray Finish, Oscillated	1	MBW
32-35-2500		Paint Underside Of Body	1	MBW
32-35-9015		Reflective Material, Crew Doors, (Com.)	1	MBW
33-49-1000		Overall Length Requirement The overall length of the apparatus should not exceed 311.5".	1	MBW
33-49-2000		Overall Height Requirement The overall height of the body should not exceed 110".  The overall height of the body should not exceed 110".  The maximum overall height from the ground to the top of the light bar should not exceed 113".  Hose bed height, floor to ground, should not exceed 81" (fully loaded).  Crosslay height, floor to ground, should not exceed 71" (fully loaded).	1	MBW
33-49-5600		96" Wide Body	1	MBW
33-50-0000		Compartment Sizes	1	MBW
33-50-0912		Split-Depth Compartments	1	MBW
33-50-0927		Standard Pumper (Lo, 3/4, Hi Side - STD Hosebed)	1	MBW
33-50-300B		40" Compartments, Side Swing Doors	1	MBW
34-06-0225	S	40, High Side, Split Depth, R.S., Swing Doors	1	MBW
34-06-0525	S	40, High Side, Split Depth, C.S., Swing Doors	1	MBW
34-06-407G	S	Compartment Sizes, High Side, Split Depth, R.S., Single Door w/Lift up WW 1. 37" high x 57" wide x 11.5" deep. Clear depth. Lift up door.  2. 55" high x 33.75" wide x 11.5" deep x 25.5" deep lower (open into rear	1	MBW

PART NO	S	DESCRIPTION	QTY	ID
		compartment). Clear depth. Vertically hinged double doors.  The door on R1 to have center mounted nylon pull strap attached to the inner panel to aid in closing the door.		
34-06-408G	S	Compartment Sizes, High Side, Split Depth, C.S., Single Door w/Lift up WW 1. 37" high x 57" wide x 11.5" deep. Clear depth. Lift up door.  2. 55" high x 33.75" wide x 11.5" deep x 25.5" deep lower (open into rear compartment). Clear depth. Vertically hinged double doors.  The door on C1 to have center mounted nylon pull strap attached to the inner panel to aid in closing the door.	1	MBW
34-06-9951		No Recessed Back (Flat Back), Pumper Body	1	MBW
34-06-9991	S	Compartment Size, Rear Compt., Dbl Door, Swing, 34"H x 40"W, Pumper 1. 33.75" high x 40" wide x 15" deep. Clear depth. Vertically hinged double door.	1	MBW
34-80-2000		Scba Bottle Compt In Wheelhousing	4	MBW
36-00-1000		Scba Bottle Bracket Only SCBA Walkaway brackets to be Zico #UH-6-30-2-SF.  Brackets to be located in R1.	4	MBW
36-00-4000	S	Adjustable SCBA Standards Locate in R1 & C1.	2	MBW
36-15-1000		Shelf .19" Aluminum Fixed, 28" Max Locate one shelf in R2 and C2 at the change of depth.	2	MBW
36-15-3000	S	Shelf .19" Aluminum Adjustable, 28" Max Eight (8) adjustable shelve(s) shall be provided and fabricated from .188" high strength 5052-H32 aluminum. The shelves are to have a 2" lip on all four (4) sides.  For ease of adjustment and as additional shelving reinforcement, the shelves shall not be bolted directly to the standards but shall be supported by angle shelf holders that in turn are fastened to the standards.  Locate one (1) shelf in C1 and the rear compartment.  Locate two (2) shelves in R2 & C2 (one upper & one lower).  Locate two (2) shelves in the curbside pump panel compartment.	8	MBW
36-15-6000		Shelving Adjustable Standards Locate in R1 & C1.	2	MBW
36-30-5000		Tray 250#, Roll-Out/Drop Down, 9"-36" Ext. Locate in C1.	1	MBW
36-40-2000	S	Storage Rack, Transverse A .13" smooth aluminum rack will be mounted on the inside of each hose bed cover for storing a back board in each section. Rack will be approximately 3" high x 20" wide x 72" long and have drain holes on the lower side. Two (2) Velcro straps will be provided on each section to secure equipment. Compartment interior will be left an oscillated aluminum finish.  The below item shows the actual size of equipment and the body manufacturer will be responsible for adding the tolerances for a proper fit.	2	MBW

PART NO	S	DESCRIPTION	QTY	ID
36-50-9900	S	I-Zone Bracket Two (2) easily removable I-Zone brackets shall be mounted on the rear of the body, one each side. The brackets shall be designed with adequate reinforcement to eliminate flexing of the body and not interfere with any rear facing lights when carrying hose.	2	MBW
55-80-1990		SELECT CAMERA INTEGRATION (If Applicable)	1	MBW
60-05-1000		Wiring Diagram (STD)	1	MBW
60-05-1516		12 Volt, Commercial Chassis, Multiplex Body	1	MBW
60-05-2645		12 Volt Wiring (Commercial Pumper)	1	MBW
60-05-5000		Electrical Testing	1	MBW
60-05-6150		Display Module, Cab, 4.3", Sim-Plex	1	MBW
60-10-1000		Master Disconnect Switch (STD)	1	MBW
60-20-2000		Battery Conditioner, Kussmaul 1000	1	MBW
60-25-1000		Shoreline Inlet, Auto Eject	1	MBW
60-30-2000	S	Cab Control Console Between Seats A control switch console panel shall be located between the seats in the front cab. The top of the console shall be removable for easy inspection and servicing. The console shall be fabricated of smooth aluminum with a black powder coated finish.  The panel will utilize state of the art multiplex components and will include a built in system fault indicator light to notify of any electrical problems. Eight (8) touch pad type solid state switches shall be provided with built in indicator lights. Labeling for switch identification shall be back lighted for night operation and located in the front face of switch for easy identification.	1	MBW
60-30-7000		Switch Layout, Cab Console The switch panel layout will be as follows:	1	MBW
60-32-0500		Switch Master Warning Light (STD)	1	MBW
60-32-7000		Lamp Sequencer/Load Manager - MBW Furnished	1	MBW
60-32-8000		Low Voltage Alarm (STD)	1	MBW
62-00-2100		Running Lights, LED, Aerial/Pmpr/RPM/Tnkr	1	MBW
62-00-3510		License Plate Light, LED, Ri-Tar #M27	1	MBW
62-05-3050		Marker/Turn Signal Lights, LED, Rear Body Fender	1	MBW
62-06-2520		Stop, Tail, & Separate Turn Signal Arrow - Whelen M6 LED	1	MBW
62-06-4020		Backup Light - Whelen M6 LED	1	MBW
62-15-2021		Compartment Light, Amdor LED, 1-Strip Light Locate in the pump panel compartment.	1	MBW
62-15-2022		Compartment Lights, Amdor LED, 2-Strip Lights Locate in R1, R2, C1, C2, and the rear compartment.	5	MBW
62-22-7900		Door Ajar Indicator Light There shall also be an alarm in addition to the light.	1	MBW
62-22-8400		Engine Compartment Light (LED)	1	MBW
62-22-9600		Pump Compartment Light (LED)	1	MBW
62-50-5014		Step Lights, LED, TecNiq #E03 (Pumper MID)	1	MBW
65-05-1000		Polished Aluminum Lamp Brackets (STD-P)	1	MBW
65-05-1805	S	Hosebed Lights, Wall-Mounted, Amdor H2O, Frt. of Hose Bed The lights shall be activated with a switch on the roadside pump panel.	1	MBW
65-05-2000	S	Decklamps Whelen PCH1P There shall be two (2) pedestal mount Whelen PCP1P spot/flood lights mounted on the rear of the hose body uprights. Lights to be the combination flood/spot type controlled with a switch at the light itself.	1	MBW

PART NO	S	DESCRIPTION	QTY	ID
65-05-2700		Switch On Dash For Deck Lights	1	MBW
65-10-2500		Spotlight, Handheld, Collins CL-12	1	MBW
65-22-4300	S	Brow Light, Whelen Pioneer Dual Pnl Super LED, #PCH2, 12-volt	1	MBW
65-26-9999	S	Whelen Pioneer Micro Work Light	4	MBW
		Four (4) Whelen Pioneer Micro series, model #MPBB, LED work lights with bail mount brackets shall be provided. One light shall be mounted on each side of the pump compartment and two lights shall be mounted on the rear of the body. The lights shall be controlled individually by labeled and lighted rocker switches located in the switch panel in the cab floor console.		
65-40-1004		Ground Lights, LED, TecNiq #T44 (Pumper - MID)	1	MBW
65-40-4064		Ground Lights, LED, Commercial 4-Door Chassis, TecNiq #T44	1	MBW
65-40-5004		Ground Light, Additional, LED, TecNiq #T44 (ea) Locate under the rear step.	1	MBW
68-10-3000	S	Fog Lights, Whelen Micro Light	1	MBW
		There shall be two (2) Whelen Pioneer Micro series, model #MPBB, LED work lights with bail mount brackets mounted on the front bumper with a switch in the cab.		
68-10-5000	S	Map Light , Gooseneck, Littlite	1	MBW
68-10-7400		Antenna Mount, Installed On Cab Roof	4	MBW
		Two (2) to terminate in the center of the cab dash and two (2) to terminate under the officer's seat.		
68-25-0003		WIRED SYSTEM	1	MBW
68-25-219A		Headset Hanger, Quick Release, NFPA Compliant (EA)	4	MBW
68-25-2200		Intercom System, David Clark, 3800 Series	1	MBW
68-25-2225		David Clark Junction Module, Radio Cord	1	MBW
68-25-2350		Headset, Driver's, Wired, David Clark, H3442	1	MBW
68-25-2400		Headset, Officer's, Wired, David Clark, H3442	1	MBW
68-25-2500		Crew Headset, 2-Person, Wired, David Clark, H3442	1	MBW
68-25-2600		Headset, Pump Panel/Mic Box Connection, David Clark	1	MBW
68-40-1000		Back up Alarm (STD)	1	MBW
70-50-5215	S	Speaker, Whelen SA315P, 100-Watt, Behind Bumper (EA)	2	MBW
70-90-4000		Siren, Federal EQ2B	1	MBW
		The siren shall be wired through the siren control head and the chassis horn ring and be activated only when the "calling for the right of way" function has been activated.		
73-30-5510	S	Light Bar, LED, Whelen Justice JE2NFPA, 56"	1	MBW
73-50-6500	S	Traffic Advisor, LED, Whelen TAM83	1	MBW
73-50-7000		Recess For Arrowstik & Traffic Advisor	1	MBW
75-70-5110	S	LED, Linear Super, Whelen, Series M6, Red With Clear Lens	10	MBW
		Locate two (2) on the lower front of the cab to meet NFPA.		
		Locate three (3) each side of the apparatus to meet NFPA.		
		Locate two (2) on the lower rear of the body to meet NFPA.		
75-70-6020	S	LED SUPER, Whelen, ION Series, Red	2	MBW
		Locate on the front bumper to meet NFPA.		
75-70-7615	S	LED SUPER, Whelen, Series 500, TIR6, Split Red/Amber	4	MBW
		Locate on the upper rear of the body to meet NFPA.		
95-10-0005		SELECT LADDER STORAGE OPTIONS	1	MBW
95-10-9900	S	Suction Hose/Ladder Storage Compartment	1	MBW
		A storage compartment shall be provided, centered, in the the hose bed. The compartment shall be divided and be no longer than the hose bed x 19" wide x 29" high or sufficient size to allow storage of a 20 ft. 2-section Duo Safety #912		

PART NO	S	DESCRIPTION	QTY	ID
		extension ladder, suction hose, digging bar, and pike pole.		
		The suction hose portion shall be located on the curbside with three (3) trays to accommodate three lengths of 4" light weight suction hose with short rocker lug couplings and suction screen.		
		The ladder portion shall be on the left side. There shall be a teflon slides attached to the floor for ease of ladder removal.		
		Both sections of this compartment shall have separate vertically hinged aluminum doors and lockable "D" ring latches. Teh hinges shall be on the outboard side with the doors latching in the center section.		
95-35-2000	S	Suction Hose, Hard 4" X 8' Lg	3	MBW
95-50-8000		Booster Hose, 3/4" x 1 Ft.	150	MBW
97-00-1000		Miscellaneous Equipment (STD)	1	MBW
97-95-1105	S	Worden Chock, #HWG Locate in the curbside cab step compartment.	1	MBW
		The wheel chocks to be yellow.		
97-96-0500		Manufacturer Nameplates and Identification	1	MBW
97-99-5000		Miscellaneous Fasteners (STD)	1	MBW
97-99-5050		ECK (STD)	1	MBW
97-99-8000		NFPA Requirement (STD)	1	MBW
98-30-0020		Website Updates	1	MBW



**Prepared For:**  
Marion Body Works Inc.  
Shane Krueger  
211 W. Ramsdell St.  
Marion, WI 54950-  
(715)754 - 5261  
Reference ID: N/A

**Presented By:**  
PACKER CITY INT'L TRKS  
Mark Winkler  
611 HANSEN ROAD  
GREEN BAY WI 54304 -  
(920)499-0879

Thank you for the opportunity to provide you with the following quotation on a new International truck. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.

**Model Profile**  
**2018 7400 SFA 4X4 (SR525)**

<b>APPLICATION:</b>	Fire/Pumper (Emergency)
<b>MISSION:</b>	Requested GVWR: 35000. Calc. GVWR: 35000 Calc. Start / Grade Ability: 29.21% / 3.13% @ 55 MPH Calc. Geared Speed: 73.8 MPH
<b>DIMENSION:</b>	Wheelbase: 179.00, CA: 60.10, Axle to Frame: 77.00
<b>ENGINE, DIESEL:</b>	{Cummins L9 330} EPA 2017, 330 HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 330 Peak HP (Max)
<b>TRANSMISSION, AUTOMATIC:</b>	{Allison 3000EVS_P} 5th Generation Controls; Close Ratio, 5-Speed; with Overdrive, Includes Oil Level Sensor, with Provision for PTO, Less Retarder, Max. GVW N/A
<b>CLUTCH:</b>	Omit Item (Clutch & Control)
<b>AXLE, FRONT DRIVING:</b>	{Meritor MX-12-120 EVO} Single Reduction, 12,000-lb Capacity, with Hub Piloted Wheel Mounting
<b>AXLE, REAR, SINGLE:</b>	{Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, Driver Controlled Locking Differential, 200 Wheel Ends Gear Ratio: 4.89
<b>CAB:</b>	Conventional 6-Man Crew Cab
<b>TIRE, FRONT:</b>	(2) 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive
<b>TIRE, REAR:</b>	(4) 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive
<b>SUSPENSION, RR, SPRING, SINGLE:</b>	Vari-Rate; 31,000-lb Capacity, Includes 4500-lb Capacity Multileaf Auxiliary
<b>FRAME REINFORCEMENT:</b>	Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
<b>PAINT:</b>	Cab schematic 100GM Location 1: 4014, Yellow (Custom) Chassis schematic 932GM Wheel: 4014, Yellow (Custom)

<u>Code</u>	<u>Description</u>
SR52500	Base Chassis, Model 7400 SFA 4X4 with 179.00 Wheelbase, 60.10 CA, and 77.00 Axle to Frame.
1570	TOW HOOK, FRONT (2) Frame Mounted
1CBU	FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.125" x 3.580" x 0.312" (257.2mm x 90.9mm x 8.0mm); 480.0" (12192) Maximum OAL
1GBP	FRAME REINFORCEMENT Outer "C" Channel, Heat Treated Alloy Steel (120,000 PSI Yield); 10.813" x 3.892" x 0.312"; (274.6mm x 98.9mm x 8.0mm); 480.0" (12192mm) Maximum OAL
1MDP	BUMPER, FRONT Full Width, Aerodynamic, Polished Stainless Steel; 0.125" Material Thickness
1WDT	FRAME EXTENSION, FRONT Integral; 20" In Front of Grille, with Outer "C" Channel Reinforcement
1WGE	WHEELBASE RANGE 148" (375cm) Through and Including 179" (455cm)
2GAB	AXLE, FRONT DRIVING {Meritor MX-12-120 EVO} Single Reduction, 12,000-lb Capacity, with Hub Piloted Wheel Mounting
	<u>Notes</u> : Axle Lead Time is 90 Days
3ADC	SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 12,000-lb Capacity; with Shock Absorbers
	<u>Includes</u> : SPRING PINS Rubber Bushings, Maintenance-Free
	<u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
4091	BRAKE SYSTEM, AIR Dual System for Straight Truck Applications
	<u>Includes</u> : BRAKE LINES Color and Size Coded Nylon : DRAIN VALVE Twist-Type : DUST SHIELDS, FRONT BRAKE : DUST SHIELDS, REAR BRAKE : GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster : PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel : PARKING BRAKE VALVE For Truck : QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4 : SLACK ADJUSTERS, FRONT Automatic (with Air Cam Brakes) : SLACK ADJUSTERS, REAR Automatic (with Air Cam Brakes) : SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4/8x6
	<u>Notes</u> : Rear Axle is Limited to 23,000-lb GAWR with Code 04091 BRAKE SYSTEM, AIR and Standard Rear Air Cam Brakes Regardless of Axle/Suspension Ordered
4732	DRAIN VALVE {Berg} with Pull Chain, for Air Tank
	<u>Includes</u> : DRAIN VALVE Mounted in Wet Tank
4773	BRAKE SHOES, REAR Cast
	<u>Notes</u> : Provides Rear Axle GAWR Up to 26,000-Lb. : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
4AZJ	AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel) with Automatic Traction Control

<u>Code</u>	<u>Description</u>
4EBT	AIR DRYER {Bendix AD-IP} with Heater  <u>Includes</u> : AIR DRYER LOCATION Outside Left Rail, Back of Cab
4ETD	BRAKE CHAMBERS, FRONT AXLE {MGM} 20 SqIn
4EXU	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 30/30 Spring Brake
4JCJ	BRAKES, FRONT, AIR CAM S-Cam; 16.5" x 5.0"; Includes 20 Sq. In. Long Stroke Brake Chambers  <u>Notes</u> : The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.
4NDB	BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq.In. Long Stroke Brake Chamber and Spring Actuated Parking Brake  <u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM Capacity
4VGG	AIR DRYER LOCATION Mounted Inside Left Rail, Behind Transfer Case Mounting
5708	STEERING COLUMN Tilting
5CAL	STEERING WHEEL 2-Spoke, 18" Dia., Black
5PSA	STEERING GEAR {Sheppard M100} Power
6DBY	DRIVESHAFT {Dana Spicer} SPL170XL Series in lieu of SPL140
7BES	AFTERTREATMENT COVER Polished Aluminum
7BLC	EXHAUST SYSTEM Single, Horizontal Aftertreatment Device, Frame Mounted Right Side, Under Cab, for Single Horizontal Tail Pipe, Frame Mounted Right Side Back of Cab, for All-Wheel Drive
7SDP	ENGINE COMPRESSION BRAKE {Jacobs} for Cummins ISL/L9 Engines; with Selector Switch and On/Off Switch
7WZY	SWITCH, FOR EXHAUST 2 Position, Lighted & Latching, On/Off Type, Mounted in IP, Inhibits Diesel Particulate Filter Regeneration as Long as Switch is in On Position
8000	ELECTRICAL SYSTEM 12-Volt, Standard Equipment  <u>Includes</u> : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever : HEADLIGHTS (2) Sealed Beam, Round, with Chrome Plated Bezels : JUMP START STUD Located on Positive Terminal of Outermost Battery : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light : STARTER SWITCH Electric, Key Operated : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted : WIRING, CHASSIS Color Coded and Continuously Numbered
8518	CIGAR LIGHTER Includes Ash Cup

<u>Code</u>	<u>Description</u>
8585	FOG LIGHTS Prewire; Includes Auxiliary Switch and Wiring to Front Bumper, for Driving Lights or Fog Lights Mounted by Customer
8718	POWER SOURCE Cigar Type Receptacle without Plug and Cord
8GXK	ALTERNATOR {Leece-Neville BLP4006HN} Brushless, 12 Volt 325 Amp. Capacity, Pad Mount, with Remote Sense
8HAE	BODY BUILDER WIRING Rear of Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/ Accessory Power/Ground and Sealed Connector for Stop/Turn
8HAT	WIRING, SPECIAL Includes Wires Installed Through the Dash Panel and End in Engine Compartment, In Cab Wire Ends Will Have ESC Input Terminals, Engine Compartment Wire Ends will have Sealed Connectors
8MKL	BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 1950CCA Total
8REA	2-WAY RADIO Wiring Effects; Wiring with 20 Amp Fuse Protection, Includes Ignition Wire with 5 Amp Fuse, Wire Ends Heat Shrink and 10' Coil Taped to Base Harness
8RMA	RADIO AM/FM/WB/Clock/Bluetooth/USB Input/3MM Auxiliary Input, MP3, Apple Device Play & Control, Bluetooth for Phone & Music, with Multiple Speakers
8THB	BACK-UP ALARM Electric, 102 dBA
8TPA	DATA RECORDER Includes Display Mounted in Overhead Console
8VAY	HORN, ELECTRIC Disc Style
8WEE	SWITCH, AIR HORN, PASSENGER Fire Truck Application; Momentary Switch Located in Instrument Panel Close to Passenger, Driver Also To Activate Switch at Steering Wheel
8WHE	HORN, AIR ACCOMMODATION PACKAGE; less Horn
8WML	HEADLIGHTS Long Life Halogen; for Two Light System
8WPH	CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted on Cab or Sunshade
8WTK	STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection
8WTR	COURTESY LIGHT (4) Mounted In Front & Rear Map Pocket Left and Right Side
	<u>Notes</u>
	: Feature included with CAB INTERIOR TRIM, Premium
8WWJ	INDICATOR, LOW COOLANT LEVEL with Audible Alarm
8WXB	HEADLIGHT WARNING BUZZER Sounds When Head Light Switch is on and Ignition Switch is in "Off" Position
8WXD	ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park Brake is "NOT" Set, with Ignition "OFF" and any Door Opened
8WZP	INDICATOR, BATTERY WARNING Green BATTERY ON Indicator, Mounted on Left Side of Instrument Panel, To be Used with Factory Installed or Customer Mounted Battery Disconnect Switch
8XAH	CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators, Replaces All Fuses
8XBK	SWITCH, AUXILIARY Switch 40 amp Circuit for Customer Use; Includes Wiring Connection at PDC and Control in Cab
8XGJ	BATTERY BOX Steel with Plastic Cover, 30" Wide, 2, 3 or 4 Battery Capacity, Mounted Left Side Under Cab
8XHD	BATTERY DISCONNECT SWITCH 300 Amp; Cab Mounted, Disconnects Charging Circuits; Locks with Padlock
8XJE	TURN SIGNALS, FRONT {Sound Off} Dual Face, LED, Amber/Amber, Mounted on Top of Fender, Used with Standard Flush Mounted Front Turn Signal, Side Marker Lamps, Parking Lights and Reflectors

<u>Code</u>	<u>Description</u>
9593	FENDER EXTENSIONS Omit
9HAN	INSULATION, UNDER HOOD for Sound Abatement
9HBM	GRILLE Stationary, Chrome
9HBN	INSULATION, SPLASH PANELS for Sound Abatement
9WAC	BUG SCREEN Mounted Behind Grille
9WBC	FRONT END Tilting, Fiberglass, with Three Piece Construction; for WorkStar
9WBT	GRILLE EMBER SCREEN Mounted to Grille and Cowl Tray to Keep Hot Embers out of Engine and HVAC Air Intake System
10060	PAINT SCHEMATIC, PT-1 Single Color, Design 100  <u>Includes</u> : PAINT SCHEMATIC ID LETTERS "GM"
10632	PAINT IDENTITY, PT-2 Single Color, Instruction No. 932. Wheels
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone
10771	PAINT CLASS Single Custom Color
11001	CLUTCH Omit Item (Clutch & Control)
12703	ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze Protection
12849	BLOCK HEATER, ENGINE 120V/1000W, for Cummins ISB/B6.7/ISL/L9 Engines
12EHV	ENGINE, DIESEL {Cummins L9 330} EPA 2017, 330 HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 330 Peak HP (Max)
12THT	FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed with Residual Torque Device for Disengaged Fan Speed  <u>Includes</u> : FAN Nylon
12UWZ	RADIATOR Cross Flow, Series System; 1228 SqIn Aluminum Radiator Core with Internal Water to Oil Transmission Cooler and 1167 In Charge Air Cooler  <u>Includes</u> : DEAERATION SYSTEM with Surge Tank : HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps : RADIATOR HOSES Premium, Rubber
12VBG	AIR CLEANER Dual Element, with Integral Pre Cleaner  <u>Includes</u> : GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel
12WBR	FAN OVERRIDE Manual; with Electric Switch on Instrument Panel, (Fan On with Switch On)
12WYK	ENGINE WATER COOLER {Sen-Dure} Auxiliary, For Use with Fire Trucks
12WZB	EMISSION COMPLIANCE Low NOx Idle Engine, Complies with California Clean Air Regulations; Includes "Certified Clean Idle" Decal on Hood
12XAT	ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; with Ignition Switch Control for Cummins ISB/B6.7 or ISL/L9 Engines

<u>Code</u>	<u>Description</u>
12XZG	FEDERAL EMISSIONS {Cummins L9} EPA, OBD and GHG Certified for Calendar Year 2017
13AUL	TRANSMISSION, AUTOMATIC {Allison 3000EVS_P} 5th Generation Controls; Close Ratio, 5-Speed; with Overdrive, Includes Oil Level Sensor, with Provision for PTO, Less Retarder, Max. GVW N/A
13TKA	TRANSFER CASE {Meritor T-4210 2} 2 Spd, 10000 lb-ft Total Capacity, with Provision for PTO, with Electric Over Air Control
	<u>Includes</u> : LIGHT, INDIC, ALL-WHEEL DRIVE Illuminates With All Wheel Drive Engaged, Located on Instrument Panel
13WDB	TRANSFER CASE LUBE {EmGard 50W} Synthetic; 1 thru 14.99 Pints
13WDV	OIL COOLER, TRANSFER CASE Remote Mounted Back of Cab
13WDZ	SHIFT CONTROL PARAMETERS Allison S-1 Performance Programming in Primary and Allison Fixed Programming in Secondary
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints
13WUZ	ALLISON SPARE INPUT/OUTPUT for Emergency Vehicle Series (EVS), 127/198 Includes J1939 Based Auto Neutral; Fire/Pumper, Tank, Aerial/Ladder
13WVN	TRANSMISSION SHIFT CONTROL {Allison} Bump Shifter Type; for Allison 3000 & 4000 Transmission
13XAN	PTO LOCATION No PTO
14ARB	AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, Driver Controlled Locking Differential, 200 Wheel Ends . Gear Ratio: 4.89
	<u>Includes</u> : REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle
	<u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires. : When Specifying Axle Ratio, Check Performance Guidelines and TCAPE for Startability and Performance
14SAL	SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 31,000-lb Capacity, Includes 4500-lb Capacity Multileaf Auxiliary
	<u>Notes</u> : The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.
14WAP	SHOCK ABSORBERS, REAR (2)
15DYR	DEF TANK 9.5 U.S. Gal. 35.9L Capacity, Frame Mounted Outside Left Rail, Back of Cab
15LLY	LOCATION FUEL/WATER SEPARATOR Mounted Outside Left Rail 66" Back of Cab
15LMN	FUEL/WATER SEPARATOR {Racor 400 Series,} 12 Volt Pre-Heater, with Primer Pump, and WIF Sensor
15SVN	FUEL TANK Top Draw; Non-Polished Aluminum, 26" Diam., 70 U.S. Gal., 265L Capacity Mounted Left Side, Back of Cab
15WCS	FUEL COOLER Less Thermostat; Mounted in Front of Cooling Module
16196	CAB Conventional 6-Man Crew Cab
	<u>Includes</u> : ARM REST (2) Molded Plastic; One Each Door : COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window : CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel : DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted

<u>Code</u>	<u>Description</u>
	<ul style="list-style-type: none"> <li>: GLASS, ALL WINDOWS Tinted</li> <li>: GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side</li> <li>: GRAB HANDLE, CAB INTERIOR (2) Front of "B" Pillar Mounted, One Each Side</li> <li>: GRAB HANDLE, CAB INTERIOR (4) Two Each Side, Rear Door Mounted at Hinge Side and "C" Pillar Mounted</li> <li>: INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color</li> <li>: STEP (8) Two Steps Per Door</li> </ul>
	<p><u>Notes</u></p> <ul style="list-style-type: none"> <li>: 43.9" CA Loss</li> </ul>
16HBA	GAUGE CLUSTER English with English Electronic Speedometer
	<p><u>Includes</u></p> <ul style="list-style-type: none"> <li>: GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level</li> <li>: ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout</li> <li>: WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)</li> </ul>
16HCL	SEATBELT WARNING PREWIRE Includes Seat Belt Switches and Seat Sensors for all Belted Positions in the Cab and a Harness Routed to the Center of the Dash for the Aftermarket Installation of the Data Recorder and Seatbelt Indicator Systems, for 4 to 6 Seat Belts
16HGH	GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission
16HKT	IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster
16HLJ	GAUGE, DEF FLUID LEVEL
16JAJ	SEAT, PASSENGER {H.O. Bostrom Tanker 450} for SCBA with SecureAll Locking System, Non-Suspension, High Back, Vinyl, Adjusters, 7-Degree Back Angle, with Covered Back, International Logo on Headrest
16JJG	SEAT, DRIVER {H.O. Bostrom Sierra Air 100} NFPA Compliant, Air Suspension, High Back, Vinyl with Covered Back and International on Headrest for Fire Truck
	<p><u>Includes</u></p> <ul style="list-style-type: none"> <li>: SEAT BELT 3-Point, Lap and Shoulder Belt Type</li> </ul>
16RDZ	SEAT, REAR {H.O. Bostrom Tanker 400CT} for SCBA with Secure All Locking System, Three Individual Seats on One Riser, Non Suspension, High Back, Vinyl, with Covered Back and International on Head Rest
16SDC	GRAB HANDLE (2) Chrome Towel Bar Type with Anti-Slip Rubber Inserts; for Cab Entry, Mounted Left and Right, Each Side at "B" Pillar
16SNA	MIRRORS (2) {Lang Mekra} Rectangular, Black Heads, Brackets and Arms, Breakaway Type, 7.55" x 14.1" Integral Convex Both Sides, 102" Inside Spacing
16VCA	SEAT BELT All Red; 4 to 6
16WCT	AIR CONDITIONER {Blend-Air} with Integral Heater & Defroster
	<p><u>Includes</u></p> <ul style="list-style-type: none"> <li>: HEATER HOSES Premium</li> <li>: HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps</li> <li>: REFRIGERANT Hydrofluorocarbon HFC-134A</li> </ul>
16WJS	INSTRUMENT PANEL Center Section, Flat Panel
16WKY	HVAC FRESH AIR FILTER
16WLE	STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door
16WSG	CAB INTERIOR TRIM Deluxe; for Crew Cab

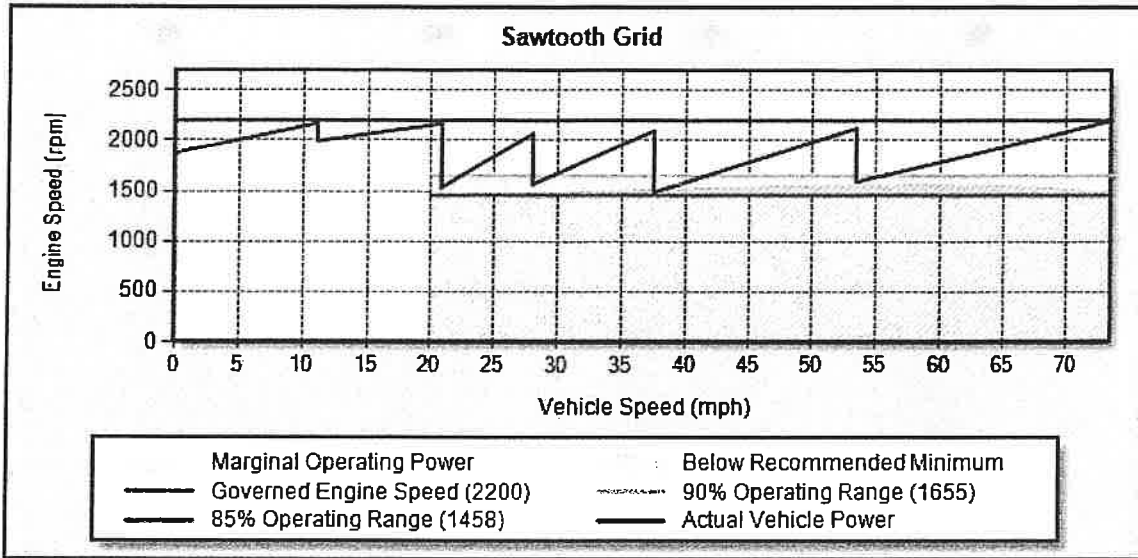
<u>Code</u>	<u>Description</u>
	<u>Includes</u> : CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering : CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CB Radio Pocket : DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors : FLOOR COVERING Rubber, Black : HEADLINER Soft Padded Cloth : INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section : STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door : SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console
16WSK	CAB REAR SUSPENSION Air Bag Type
26DTT	WHEEL, SPARE, DISC {Accuride 28828} 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, with .472" Thick Increased Capacity Disc
27DTT	WHEELS, FRONT {Accuride 28828} DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and with Steel Hubs
28DTT	WHEELS, REAR {Accuride 28828} DUAL DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and with Steel Hubs
60AAB	BDY INTG, REMOTE POWER MODULE (2) Mounted Under Cab or On Battery Box; Up to 6 Outputs & 6 Inputs each, Max. 20 amp. per Channel, Max. 80 amp. Total per Power Module (Includes 12 Latched Switches)
60AKK	BDY INTG, HEADLIGHTS, WIG WAG High Beam Wig Wag with Park Brake Interlock, Park Brake Disables Wig Wag
7382135420	(2) TIRE, FRONT 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive
7382135420	(4) TIRE, REAR 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive

**Services Section:**

40115	WARRANTY Standard for WorkStar 7300/7400 (4x2, 4x4, 6x4, 6x6), Effective with Vehicles Built January 2, 2015 or Later, CTS-2002U
1	Add PTO
	Doc



ENGINE/TRANSMISSION MATCHING



Sawtooth Details

Gear	Trans Ratio	Multi Speed	Upshift Power Avail		Govern Power Avail		Peak Power Comparison			Warn Msg
			Veh Spd (MPH)	Eng Spd (RPM)	Veh Spd (MPH)	Eng Spd (RPM)	Gear Step (%)	85% Range (%)	90% Range (%)	
1C-2	3.49	1.00	0.0	1875	11.1	2171	N/A	51	33	
2C-2	1.86	1.00	11.1	1995	20.8	2169	N/A	51	33	
2L-2	1.86	1.00	20.8	1536	28.0	2070	N/A	51	33	
3L-2	1.41	1.00	28.0	1569	37.5	2101	N/A	51	33	
4L-2	1.00	1.00	37.5	1490	53.4	2125	N/A	51	33	
5L-2	0.75	1.00	53.4	1594	73.8	2200	N/A	51	33	

@ - WHEELSLIP CAN OCCUR AT THE GRADE SHOWN. THE VEHICLE IS CAPABLE OF INCREASED GRADEABILITY IF MORE WEIGHT IS PLACED ON THE DRIVE AXLES.

**STEADY STATE PERFORMANCE**

Performance Results	Gear	Veh Spd (mph)	Eng Spd (rpm)	Fuel Econ (mpg)	Grade (%)	Notes
LEVEL ROAD MAXIMUM SPEED	5L-2	75.5	2252	*****	0.00	
HI GEAR SPEED @ RATED RPM	5L-2	73.8	2200	*****	1.19	
55.0 MPH STEADY-STATE	5L-2	55.0	1641	*****	3.13	
TYPICAL OPERATING SPEED	5L-2	65.0	1939	*****	2.30	- Calculated Grade Ability/Fuel Economy

VEHICLE ORDER CODING ERRORS MAY RESULT IF THE "LEVEL ROAD MAX SPEED" VALUE EXCEEDS THE "HI GEAR SPEED @ RATED RPM" AND IS USED AS THE ENGINE PROGRAMMABLE VEHICLE SPEED LIMIT.

IF THE RESULTS CONTAIN " — " , VEHICLE CANNOT ATTAIN THAT SPEED.

IF THE RESULTS CONTAIN "\*\*\*\*\*", THE ENGINE USED DOES NOT HAVE A FUEL MAP. FUEL ECONOMY CANNOT BE PREDICTED.

**Recommendations / General Information**

IDLE FUEL RATE : \*\*\*\*\* GALS/HR @ 700.0 RPM  
TORQUE CONVERTER : TC-419 STALL RATIO: 2.02

**Fuel Economy Route: Normal Route - City, Suburban, and Highway**

Key Fuel Economy Information	City	Suburban	Highway	Notes
MILES PER GALLON	*****	*****	*****	
AVERAGE MPH	19.1	40.0	54.6	
MISSION MINUTES	29.61	51.79	173.30	

IF THE RESULTS CONTAIN "\*\*\*\*\*", THE ENGINE USED DOES NOT HAVE A FUEL MAP. FUEL ECONOMY CANNOT BE PREDICTED.

**GRADEABILITY PERFORMANCE**

**Enroute - Full Throttle Upshift Performance**

Gear	Trans Ratio	Multi Speed	Veh Spd (mph)	Eng Spd (rpm)	Whl Pwr (hp)	Grade (%)	Warn Notes
1C-2	3.49	1.00	0.0	1875	0.00	46.00	@ STALL
			6.6	2022	206.41	34.42	70% EFF
			8.7	2080	233.21	29.21	80% EFF
			11.1	2171	246.42	23.63	
2C-2	1.86	1.00	11.1	1995	193.87	18.23	
			20.8	2169	245.72	11.90	
2L-2	1.86	1.00	20.8	1536	253.57	12.31	
			28.0	2070	288.25	10.12	
3L-2	1.41	1.00	28.0	1569	255.09	8.83	
			37.5	2101	283.17	6.94	
4L-2	1.00	1.00	37.5	1490	244.03	5.82	
			53.4	2125	274.63	3.87	
5L-2	0.75	1.00	53.4	1594	243.83	3.26	
			73.8	2200	251.61	1.19	RATED RPM
			74.0	2209	240.01	1.00	
			74.8	2230	210.04	0.50	
			75.5	2252	179.43	0.00	LEVEL ROAD

**STARTING / TOP GEAR PERFORMANCE**

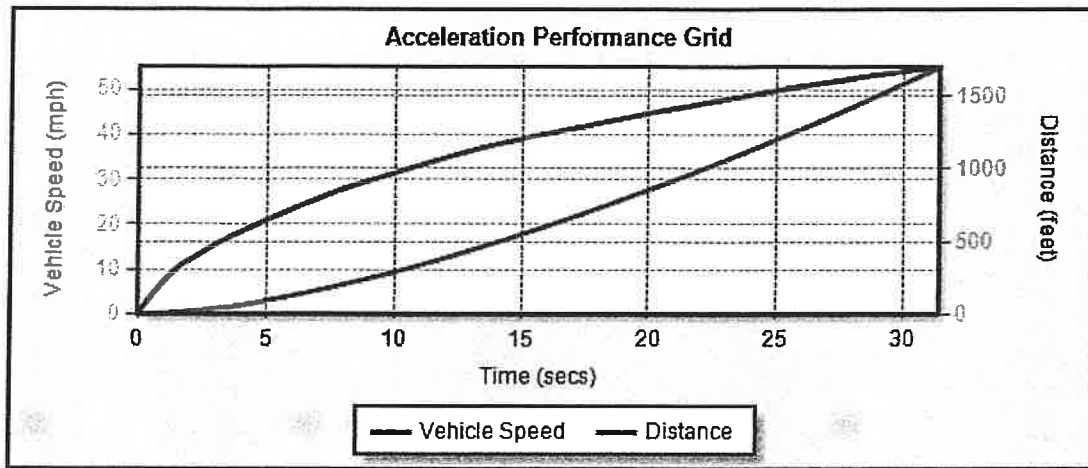
Gear	Trans Ratio	Multi Speed	Veh Spd (mph)	Eng Spd (rpm)	Whl Pwr (hp)	Grade (%)	Warn Notes
1C-1	3.49	2.06	0.0		0.00	46.00	@ STALL
			4.2		167.39	46.00	@ 80% EFF
1C-2	3.49	1.00	0.0		0.00	46.00	@ STALL
			8.7		233.21	29.21	80% EFF - Calculated Start Ability - Calculated Start Ability
5L-1	0.75	2.06	38.4		42.64	0.00	LEVEL ROAD
			35.8		262.14	6.72	RATED RPM
5L-2	0.75	1.00	75.5		179.43	0.00	LEVEL ROAD
			73.8		251.61	1.19	RATED RPM

@ - WHEELSLIP CAN OCCUR AT THE GRADE SHOWN. THE VEHICLE IS CAPABLE OF INCREASED GRADEABILITY IF MORE WEIGHT IS PLACED ON THE DRIVE AXLES.

THE TRANSMISSION WAS SIMULATED IN PERFORMANCE OPERATING MODE.

ACCELERATION PERFORMANCE RESULTS

Acceleration Performance Grid



Acceleration Performance: TIME TO ACCELERATE ON A GRADE TO 55.0 (MPH) IS 31.48 (SECS)

Acceleration Performance Details

Gear	Time (secs)	Distance (feet)	Speed (mph)	Notes	
1C	0.12	0.1	1.0		
	0.25	0.4	2.0		
	0.38	0.8	3.0		
	0.51	1.5	4.0		
	0.64	2.4	5.0		
	0.79	3.5	6.0		
	0.94	5.0	7.0		
	1.11	6.8	8.0		
	1.28	9.1	9.0		
	1.48	11.7	10.0		
	1.68	14.9	11.0		
	2C	1.71	15.3	11.1	
		1.99	20.1	12.1	
		2.28	25.4	13.1	
		2.57	31.3	14.1	
		2.88	37.9	15.1	
3.20		45.2	16.1		
3.53		53.3	17.1		
3.88		62.3	18.1		
4.24		72.2	19.1		
4.63		83.2	20.1		
2L	4.89	91.1	20.8		
	5.29	103.7	21.8		
	5.71	117.3	22.8		
	6.13	131.7	23.8		
	6.56	147.2	24.8		
	7.01	163.6	25.8		
	7.46	181.1	26.8		
	7.93	200.0	27.8		
3L	8.04	204.2	28.0		
	8.59	227.3	29.0		
	9.15	251.6	30.0		

<b>Gear</b>	<b>Time (secs)</b>	<b>Distance (feet)</b>	<b>Speed (mph)</b>	<b>Notes</b>
	9.72	277.2	31.0	
	10.31	304.1	32.0	
	10.90	332.5	33.0	
	11.51	362.4	34.0	
	12.13	393.8	35.0	
	12.77	427.0	36.0	
	13.43	462.4	37.0	
4L	13.76	480.3	37.5	
	14.58	526.1	38.5	
	15.42	573.9	39.5	
	16.27	623.8	40.5	
	17.14	675.9	41.5	
	18.02	730.3	42.5	
	18.92	787.0	43.5	
	19.84	846.3	44.5	
	20.78	908.1	45.5	
	21.74	972.7	46.5	
	22.71	1040.0	47.5	
	23.71	1110.4	48.5	
	24.74	1183.8	49.5	
	25.78	1260.6	50.5	
	26.87	1341.9	51.5	
	28.01	1428.6	52.5	
5L	29.16	1518.2	53.4	
	30.63	1634.0	54.4	
	31.48	1702.3	55.0	

## REQUIRED TCAPE INFORMATION

TCAPE Factors For Vehicle

Selected Rear Axle Gear Ratio(s):	4.89
Parked PTO:	NO
Enroute PTO:	NO
Vehicle Vocation:	GENERAL ON HIGHWAY
ID Wheel Slip Conditions:	Yes
Road Governor/Cruise Ctrl:	No
Engine Fan Type:	VISCOUS
Road Surface Type:	TYPICAL
Drive Axle Engaged:	NO
Fuel Economy Route:	Normal Route - City, Suburban, and Highway
Acceleration Grade (%):	0.0
Frontal Area (FT2):	76
Speed Limit on Route (MPH):	61.0
Relative Drag Coefficient:	85
Alternator (A):	40
Transfer Case - Gear Ratio (Accel Perf):	1.000
Steering Gear (HP):	2.60
Air Conditioner (HP):	3.20
Transfer Case - Gear Ratio(Start Ability):	1.000
Vehicle Width (IN):	96
Vehicle Height (IN):	114
Weight on Drive Axle (LBF):	23000
Acceleration Vehicle Spd (MPH):	55.0
Air Compressor (HP):	2.20
Transfer Case - Gear Ratio (Fuel Economy):	1.000
Transfer Case - Gear Ratio (Grade Ability):	1.000
TIRE, FRONT	2 - RADIAL NORMAL
TIRE, REAR	4 - RADIAL NORMAL

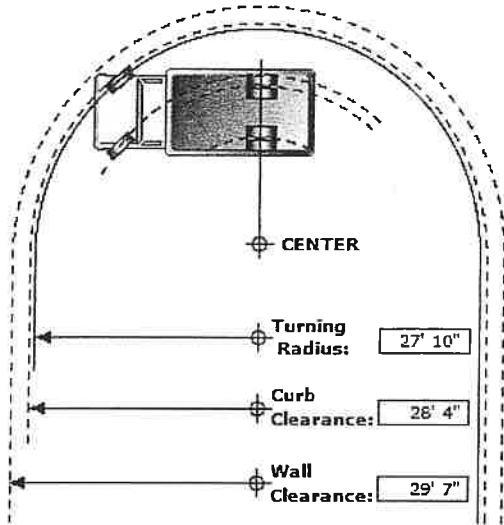
Components

0002GAB	AXLE, FRONT DRIVING {Meritor MX-12-120 EVO} Single Reduction, 12,000-lb Capacity, with Hub Piloted Wheel Mounting
0004SPA	AIR COMPRESSOR {Cummins} 18.7 CFM Capacity
0005PSA	STEERING GEAR {Sheppard M100} Power
0008GXX	ALTERNATOR {Leece-Neville BLP4006HN} Brushless, 12 Volt 325 Amp. Capacity, Pad Mount, with Remote Sense
0012EHV	ENGINE, DIESEL {Cummins L9 330} EPA 2017, 330 HP @ 2000 RPM, 1000 lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 330 Peak HP (Max)
0012THT	FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed with Residual Torque Device for Disengaged Fan Speed
0013AUL	TRANSMISSION, AUTOMATIC {Allison 3000EVS_P} 5th Generation Controls; Close Ratio, 5-Speed; with Overdrive, Includes Oil Level Sensor, with Provision for PTO, Less Retarder, Max. GVW N/A
0013TKA	TRANSFER CASE {Meritor T-4210 2} 2 Spd, 10000 lb-ft Total Capacity, with Provision for PTO, with Electric Over Air Control
0014ARB	AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, Driver Controlled Locking Differential, 200 Wheel Ends
0016196	CAB Conventional 6-Man Crew Cab
0016WCT	AIR CONDITIONER {Blend-Air} with Integral Heater & Defroster
07382135420	TIRE, FRONT 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive
07382135420	TIRE, REAR 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive

TCAPE HAS BEEN DESIGNED TO GIVE ECONOMY AND PERFORMANCE PREDICTIONS WHICH HAVE BEEN SHOWN TO BE TYPICAL FOR MOST OPERATIONS. HOWEVER, DUE TO OPERATING CONDITIONS, DRIVER INFLUENCES, AND OTHER FACTORS, YOUR RESULTS MAY VARY FROM THOSE PREDICTED. ALSO, BECAUSE OF FUEL MAPPING PROCEDURES USED

BY VARIOUS ENGINE MANUFACTURERS, COMPARISONS OF FUEL ECONOMY RESULTS FOR DIFFERENT BRANDS OF ENGINES MAY VARY FROM THOSE SHOWN.

NAVISTAR, INC. SHALL NOT BE LIABLE FOR ANY LOSS OF PROFITS, LOSS OF USE, INTERRUPTION OF BUSINESS OR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND THAT ARE INCURRED BY DEALER OR BY DEALER'S CUSTOMERS AS A RESULT OF RELIANCE ON TCAPE, WHETHER THE CLAIM IS IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE.



Series: 7000  
 Model: SR525  
 Description: 7400 SFA 4X4  
 Model Year: 2018

**Calculation Factors**

Wheelbase: 179  
 Front Axle: 0002GAB  
 Description: AXLE, FRONT DRIVING, {Meritor MX-12-120 EVO} Single Reduction, 12,000-lb Capacity, with Hub Piloted Wheel Mounting  
 Front Wheel: 0027DTT  
 Description: WHEELS, FRONT, {Accuride 28828} DISC; 22.5x8.25 Rims, Powder Coat Steel, 2-Hand Hole, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with .472" Thick Increased Capacity Disc and with Steel Hubs  
 Front Tire: 07382135420  
 Description: TIRES, 11R22.5 Load Range H HDC1 (CONTINENTAL), 488 rev/mile, 75 MPH, Drive  
 Steering Gear: 0005PSA  
 Description: STEERING GEAR, {Sheppard M100} Power

**Turning Radius Statistics**

General Information

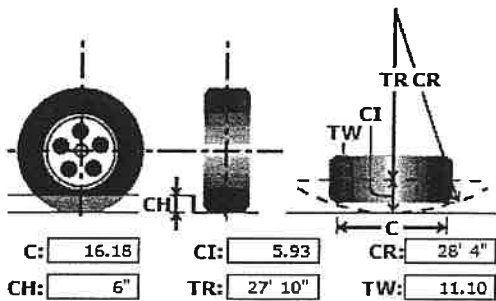
Inside Turn Angle: 42 Degrees  
 Radial Overhang: 21

Axle Information

KingPin Inclination: 7 Degrees  
 KingPin Center: 68.9

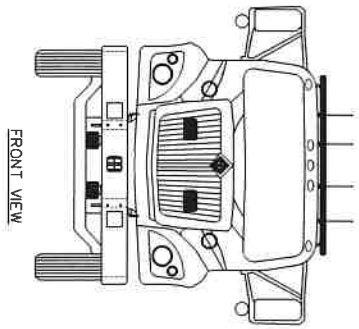
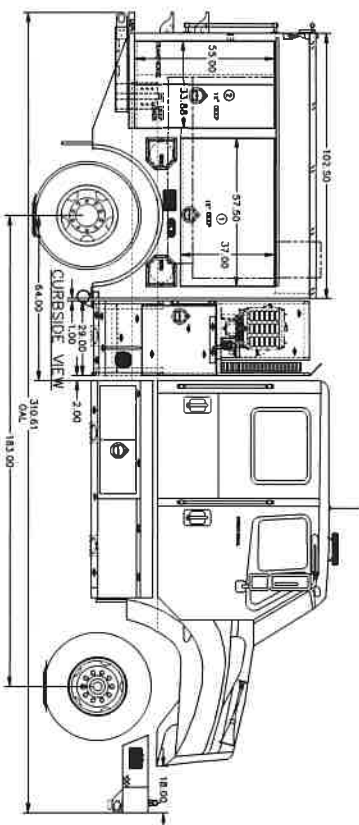
**Turning Radius - Curb View**

C - Curb Contact Length: 16.18  
 CI - Curb Clearance Increment: 5.93  
 CR - Curb Clearance Radius: 28'4"  
 CH - Curb Height: 6"  
 TR - Turning Radius: 27'10"  
 TW - Tire Width: 11.10

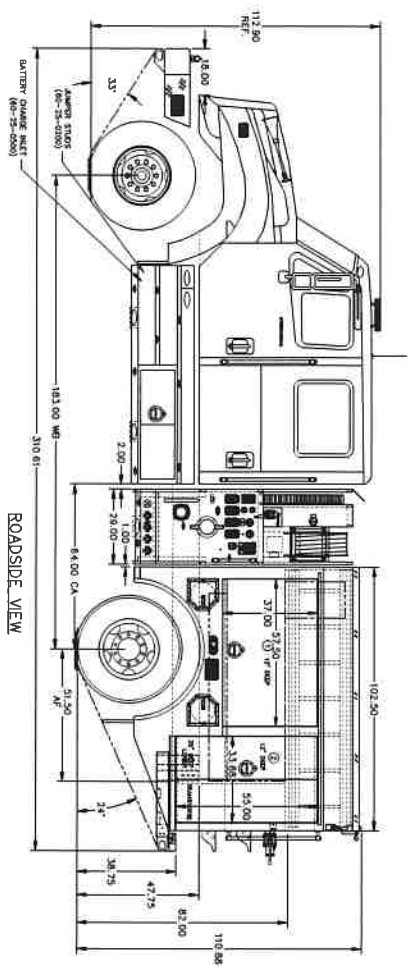


\* All Measurements are in inches, unless otherwise specified.

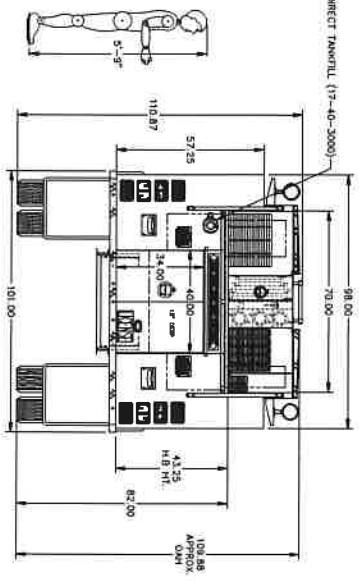




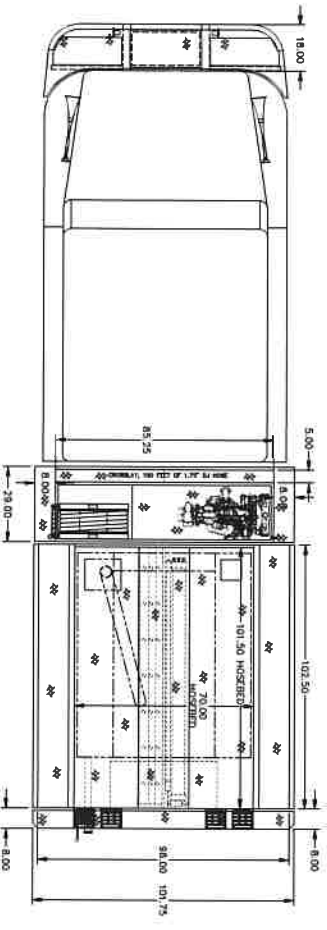
FRONT VIEW



ROADSIDE VIEW



REAR VIEW



TOP VIEW

MAXIMUM OPERATING WEIGHT (GV-40-1000) IS 11,200 LBS ON 311 SQ" MAXIMUM OPERATING WEIGHT (GV-40-1000) IS 11,200 LBS ON 311 SQ"

- 500 GPM PTO WATEROUS PUMP
- 500 GALLON WATER TANK
- 200 GALLON FOAM TANK
- 200 GALLON FOAM TANK SYSTEM
- 8059Z NEW JCG NUMBER

<b>CLASS 55</b>		<b>WARREN</b>	
PUMPER UNIT		CALIFORNIA	
MODEL	311	DATE	7/25/73
DATE	7/25/73	PRICE	11,200
WARREN PUMPER UNIT		CALIFORNIA	
MODEL	311	DATE	7/25/73
DATE	7/25/73	PRICE	11,200



## **Statement of Warranty Structural 20 Year Warranty Policy**

Marion Body Works, Inc. (Marion) warrants to the original purchaser only (Purchaser) that the body of the new Emergency Vehicle is structurally sound and free of joint separation, cracks, and all other structural defects in materials or workmanship appearing within 20 years after the date of manufacture indicated on the manufacturer's certification plate attached to the body. This warranty applies only to the original Purchaser and only while the body is installed on the original chassis.

If within the warranty period the Rescue and Fire Apparatus shall be proved to Marion's satisfaction to be defective, Marion will, without charge, repair or (at Marion's option) replace the defective Rescue and Fire Apparatus or part thereof, f.o.b. Marion's factory. Such repair or replacement shall be Marion's sole obligation and Purchaser's exclusive remedy hereunder and shall be conditioned upon Marion's receiving notice of any alleged defect within 10 days after its discovery and, at Marion's option, Purchaser's return of such body to Marion, f.o.b. Marion's factory. Marion shall have no obligation, under this warranty or otherwise, for any of the following: (a) paint finish or hardware; (b) used equipment regardless of manufacturer; (c) the body, after delivery, has been repaired or altered by anyone other than Marion; (d) the body is used for any purpose other than the intended use disclosed to Marion; (e) the body and/or compartments are subjected to impact or strain in excess of customary and reasonable usage. Marion may, at its sole option, discharge in full all of its obligations with respect to any defective emergency vehicle covered by this warranty by reimbursing the Purchaser the purchase price actually paid for the body; (f) loss of time, loss of use of the product, inconvenience, lodging, food, or other consequential or incidental loss that may result from a failure.

If a performance bond is issued which guarantees performance of this warranty and the contract to which it is attached, the term of coverage provided by the performance bond relative to the terms and conditions of the warranty is limited to one year.

**THIS WARRANTY SUPPLEMENTS MARION'S STANDARD EMERGENCY VEHICLE WARRANTY. TOGETHER WITH THAT STANDARD WARRANTY, THIS WARRANTY IS EXCLUSIVE, AND IN LIEU OF ALL OTHER REPRESENTATIONS AND WARRANTIES, EXPRESSED OR IMPLIED; AND MARION EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.**

Marion reserves the right to make changes in the design of its products without obligating itself to make the changes to products previously manufactured.

Marion's liability with respect to breaches of warranty shall be limited as provided above. With respect to other breaches of any contract, Marion's liability shall in no event exceed the contract price. MARION SHALL NOT BE SUBJECT TO AND DISCLAIMS: (1) ANY OTHER OBLIGATIONS OR LIABILITIES ARISING OUT OF BREACH OF CONTRACT OR OF WARRANTY, (2) ANY OBLIGATIONS WHATSOEVER ARISING FROM TORT CLAIMS (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR ARISING UNDER OTHER THEORIES OF LAW WITH RESPECT TO PRODUCTS SOLD BY MARION, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO, AND (3) ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES WHATSOEVER.



**Statement of Warranty  
Stainless Steel Plumbing Components  
10 Year Warranty Policy**

Marion Body Works, Inc. (Marion) warrants that the Marion manufactured stainless steel plumbing components used in the construction of the fire apparatus water/foam plumbing system against defects in workmanship provided the apparatus is used in a normal and reasonable manner. This warranty applies only to the original purchaser (Purchaser) and only while the body is installed on the original chassis.

If within the warranty period the Rescue and Fire Apparatus shall be proved to Marion's satisfaction to be defective, Marion will, without charge, repair or (at Marion's option) replace the defective Rescue and Fire Apparatus or part thereof, f.o.b. Marion's factory. Such repair or replacement shall be Marion's sole obligation and Purchaser's exclusive remedy hereunder and shall be conditioned upon Marion's receiving notice of any alleged defect within 10 days after its discovery and, at Marion's option, Purchaser's return of such body to Marion, f.o.b. Marion's factory. Marion shall have no obligation, under this warranty or otherwise, for any of the following: (a) paint finish or hardware; (b) used equipment regardless of manufacturer; (c) the body, after delivery, has been repaired or altered by anyone other than Marion; (d) the body is used for any purpose other than the intended use disclosed to Marion; (e) the body and/or compartments are subjected to impact or strain in excess of customary and reasonable usage. Marion may, at its sole option, discharge in full all of its obligations with respect to any defective emergency vehicle covered by this warranty by reimbursing the Purchaser the purchase price actually paid for the body; (f) loss of time, loss of use of the product, inconvenience, lodging, food, or other consequential or incidental loss that may result from a failure.

If a performance bond is issued which guarantees performance of this warranty and the contract to which it is attached, the term of coverage provided by the performance bond relative to the terms and conditions of the warranty is limited to one year.

**THIS WARRANTY SUPPLEMENTS MARION'S STANDARD EMERGENCY VEHICLE WARRANTY. TOGETHER WITH THAT STANDARD WARRANTY, THIS WARRANTY IS EXCLUSIVE, AND IN LIEU OF ALL OTHER REPRESENTATIONS AND WARRANTIES, EXPRESSED OR IMPLIED; AND MARION EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.**

Marion reserves the right to make changes in the design of its products without obligating itself to make the changes to products previously manufactured.

Marion's liability with respect to breaches of warranty shall be limited as provided above. With respect to other breaches of any contract, Marion's liability shall in no event exceed the contract price. MARION SHALL NOT BE SUBJECT TO AND DISCLAIMS: (1) ANY OTHER OBLIGATIONS OR LIABILITIES ARISING OUT OF BREACH OF CONTRACT OR OF WARRANTY, (2) ANY OBLIGATIONS WHATSOEVER ARISING FROM TORT CLAIMS (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR ARISING UNDER OTHER THEORIES OF LAW WITH RESPECT TO PRODUCTS SOLD BY MARION, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO, AND (3) ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES WHATSOEVER.



## Fire and Emergency Apparatus – Ten Year Body Paint Limited Warranty

### 1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, as established by our original customer acceptance document for a period of ten (10) years after delivery to the original purchaser, Marion Body Works, Inc. ("Marion") warrants to the user that its body shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection for exterior surfaces of the body of the vehicle. This limited warranty shall only apply if the vehicle is used in service which is normal to the particular vehicle model. Normal service means service which does not subject the vehicle to stresses or impacts greater than normally results from the careful use of the vehicle or chassis. If the Buyer discovers a defect or nonconformity they must notify Marion in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

This limited warranty applies only to the body exterior paint. Paint on the body interior is warranted only under the Marion One-Year Limited Warranty.

Marion makes no warranty whatsoever as to any integral parts, components, attachments or trade accessories not manufactured by Marion but instead, the applicable warranties, if any, of the respective manufacturers thereof shall apply.

### 2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN SECTION 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY MARION. MARION HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

### 3. BUYER'S EXCLUSIVE REMEDY

If the vehicle fails to conform to the warranty set forth in section 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Marion within the time period specified in section 1, and shall make the vehicle available for inspection by Marion or its designated sales representative. At the request of Marion, any allegedly defective vehicle shall be returned to Marion by the Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss or damage to the vehicle during transportation. Within a reasonable time, Marion shall repair or replace (at Marion's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Marion. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

### 4. EXCLUSION OF CONSEQUENTIAL & INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Marion and Buyer, IN NO EVENT SHALL MARION BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH ON CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE & STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY MARION, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER MARION HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Marion specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, or any other types of economic loss, or any claims by any third party for any such damages.

### 5. What This Warranty DOES Not Cover.

This Warranty covers only repair or replacement of paint in which a defect in materials or workmanship appears. Marion will not replace the fire truck or repurchase the fire truck from you. Some examples of items **NOT COVERED** by this limited warranty include:

- Any paint not applied by Marion
- Damage caused by fire, misuse, negligence, or accident
- Damage from exposure to corrosive agents
- Damage caused by theft, vandalism, riot or explosion
- Damage caused by lightning, earthquake, windstorm, hail, flood, or use in acidic environment
- Any repairs, modifications, alterations, or after-market parts added after manufacture without the authorization of Marion
- Damages resulting from compromising the painted surface in any way, such as drilling holes
- Damage from lack of maintenance or cleaning
- Gold leaf or striping except in the area affected by repair
- Loss of time, loss of use of the product, inconvenience, lodging, food, or other consequential or incidental loss that may result from a failure
- UV paint fade

*Note: Any Surety Bond, if part of the sale of the vehicle as to which this limited warranty is provided, applies only to the Marion One Year Limited Warranty for such vehicle, and not to other warranties made by Marion in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Marion) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.*



**Statement of Warranty  
Non Structural  
7 Year Electrical Warranty Policy**

Marion Body Works, Inc. (Marion) warrants to the original purchaser only (Purchaser) that all items of its manufacture found in the electrical system will be free from defects in material and workmanship for a period of seven years. Marion does not warranty any components which carry a warranty of another manufacturer and Marion's sole responsibility regarding such items shall be to pass on any existing manufacturer's warranty to the purchaser. This warranty applies only to the original Purchaser and only while the body is installed on the original chassis.

If within the warranty period the Rescue and Fire Apparatus shall be proved to Marion's satisfaction to be defective, Marion will, without charge, repair or (at Marion's option) replace the defective Rescue and Fire Apparatus or part thereof, f.o.b. Marion's factory. Such repair or replacement shall be Marion's sole obligation and Purchaser's exclusive remedy hereunder and shall be conditioned upon Marion's receiving notice of any alleged defect within 10 days after its discovery and, at Marion's option, Purchaser's return of such body to Marion, f.o.b. Marion's factory. Marion shall have no obligation, under this warranty or otherwise, for any of the following: (a) paint finish or hardware; (b) used equipment regardless of manufacturer; (c) the body, after delivery, has been repaired or altered by anyone other than Marion; (d) the body is used for any purpose other than the intended use disclosed to Marion; (e) the body and/or compartments are subjected to impact or strain in excess of customary and reasonable usage. Marion may, at its sole option, discharge in full all of its obligations with respect to any defective emergency vehicle covered by this warranty, by reimbursing the Purchaser the purchase price actually paid for the body; (f) loss of time, loss of use of the product, inconvenience, lodging, food, or other consequential or incidental loss that may result from a failure.

If a performance bond is issued which guarantees performance of this warranty and the contract to which it is attached, the term of coverage provided by the performance bond relative to the terms and conditions of the warranty is limited to one year.

THIS WARRANTY SUPPLEMENTS MARION'S STANDARD EMERGENCY VEHICLE WARRANTY. TOGETHER WITH THAT STANDARD WARRANTY, THIS WARRANTY IS EXCLUSIVE, AND IN LIEU OF ALL OTHER REPRESENTATIONS AND WARRANTIES, EXPRESSED OR IMPLIED; AND MARION EXPRESSLY DISCLAIMS AND EXCLUDES ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Marion reserves the right to make changes in the design of its products without obligating itself to make the changes to products previously manufactured.

Marion's liability with respect to breaches of warranty shall be limited as provided above. With respect to other breaches of any contract, Marion's liability shall in no event exceed the contract price. MARION SHALL NOT BE SUBJECT TO AND DISCLAIMS: (1) ANY OTHER OBLIGATIONS OR LIABILITIES ARISING OUT OF BREACH OF CONTRACT OR OF WARRANTY, (2) ANY OBLIGATIONS WHATSOEVER ARISING FROM TORT CLAIMS (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR ARISING UNDER OTHER THEORIES OF LAW WITH RESPECT TO PRODUCTS SOLD BY MARION, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATING THERETO, AND (3) ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES WHATSOEVER.



Baystone Government Finance

June 7, 2022

## FORMAL PROPOSAL

**OBLIGOR: IDYLLWILD FIRE PROTECTION DISTRICT**

- ✓ This is a finance/ownership contract. No residual value.
- ✓ Adjustable interest rate for the fifteen (15) year term.
- ✓ Fixed interest rate for the ten (10) year, and seven (7) year terms.

**EQUIPMENT: ONE (1) NEW FIRE TRUCK**

**OPTION 1**

<b>Acquisition Cost:</b>	\$349,500.00	<b>Term:</b>	Seven (7) years	<b>First Payment Due:</b>	One Year from Close
<b>Down Payment:</b>	\$ 50,000.00	<b>Payment Mode:</b>	Annual in Arrears	<b>Payment Amount:</b>	\$49,991.82
<b>Trade In:</b>	\$ 0.00	<b>Interest Rate:</b>	4.050%		
<b>Principal Balance:</b>	\$299,500.00	<b>Rate Factor:</b>	0.166918		

**OPTION 2**

<b>Acquisition Cost:</b>	\$349,500.00	<b>Term:</b>	Ten (10) years	<b>First Payment Due:</b>	One Year from Close
<b>Down Payment:</b>	\$ 50,000.00	<b>Payment Mode:</b>	Annual in Arrears	<b>Payment Amount:</b>	\$37,146.55
<b>Trade In:</b>	\$ 0.00	<b>Interest Rate:</b>	4.120%		
<b>Principal Balance:</b>	\$299,500.00	<b>Rate Factor:</b>	0.124029		

**OPTION 3**

<b>Acquisition Cost:</b>	\$349,500.00	<b>Term:</b>	*Fifteen (15) years	<b>First Payment Due:</b>	One Year from Close
<b>Down Payment:</b>	\$ 50,000.00	<b>Payment Mode:</b>	Annual in Arrears	<b>Payment Amount:</b>	\$27,543.57
<b>Trade In:</b>	\$ 0.00	<b>Interest Rate:</b>	4.320%		
<b>Principal Balance:</b>	\$299,500.00	<b>Rate Factor:</b>	0.091965		

**OPTION 4**

<b>Acquisition Cost:</b>	\$349,500.00	<b>Term:</b>	Seven (7) years	<b>First Payment Due:</b>	One Year from Close
<b>Down Payment:</b>	\$100,000.00	<b>Payment Mode:</b>	Annual in Arrears	<b>Payment Amount:</b>	\$41,645.94
<b>Trade In:</b>	\$ 0.00	<b>Interest Rate:</b>	4.050%		
<b>Principal Balance:</b>	\$249,500.00	<b>Rate Factor:</b>	0.166918		

**OPTION 5**

<b>Acquisition Cost:</b>	\$349,500.00	<b>Term:</b>	Ten (10) years	<b>First Payment Due:</b>	One Year from Close
<b>Down Payment:</b>	\$100,000.00	<b>Payment Mode:</b>	Annual in Arrears	<b>Payment Amount:</b>	\$30,945.13
<b>Trade In:</b>	\$ 0.00	<b>Interest Rate:</b>	4.120%		
<b>Principal Balance:</b>	\$249,500.00	<b>Rate Factor:</b>	0.124029		

**OPTION 6**

<b>Acquisition Cost:</b>	\$349,500.00	<b>Term:</b>	**Fifteen (15) years	<b>First Payment Due:</b>	One Year from Close
<b>Down Payment:</b>	\$100,000.00	<b>Payment Mode:</b>	Annual in Arrears	<b>Payment Amount:</b>	\$22,945.31
<b>Trade In:</b>	\$ 0.00	<b>Interest Rate:</b>	4.320%		
<b>Principal Balance:</b>	\$249,500.00	<b>Rate Factor:</b>	0.091965		

- **\*10 year fixed rate.** After the 10<sup>th</sup> year, at the sole discretion of the Obligee, payments can be adjusted based on the 10 year UST + 300 basis points and will remain fixed for the remaining payments.
- **\*\*10 year fixed rate.** After the 10<sup>th</sup> year, at the sole discretion of the Obligee, payments can be adjusted based on the 10 year UST + 300 basis points and will remain fixed for the remaining payments.
- **This is a proposal only and is not a commitment to finance. This proposal is subject to credit review and approval and proper execution of mutually acceptable documentation.**
- Failure to consummate this transaction once credit approval is granted and the documents are drafted and delivered to Obligor will result in a documentation fee being assessed to the Obligor.
- This transaction must be credit approved, all documents properly executed and returned to Baystone Government Finance and the transaction funded on ALL proposals on or before June 21, 2022. If funding does not occur within that time-frame, or there is a change of circumstance which adversely affects the expectations, rights, or security of Obligee or its assignees, then Obligee or its assignees reserve the right to adjust and determine a new interest rate factor and payment amount, or withdraw this proposal in its entirety.

- This transaction must be designated as tax-exempt under Section 103 of the Internal Revenue Code of 1986 as amended.
- **OBLIGOR'S TOTAL AMOUNT OF TAX-EXEMPT DEBT TO BE ISSUED IN THIS CALENDAR YEAR WILL NOT EXCEED THE \$10,000,000 LIMIT, OR THE INTEREST RATE IS SUBJECT TO CHANGE.**
- Neither KS StateBank nor Baystone Government Finance is acting as an advisor to the municipal entity/obligated person and neither owes a fiduciary duty pursuant to Section 15B of the Exchange Act of 1934

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**BAYSTONE GOVERNMENT FINANCE**

**IDYLLWILD FIRE PROTECTION DISTRICT**



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Aaron Lindsten ~ alindsten@ksstate.bank  
Vice President

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Signature

Title

---

Date

---

**1010 Westloop Place, Manhattan, KS 66502**  
**800.752.3562 ~ Fax: 785.537.4806**



*A Tradition of Quality. Since 1905*

Re: Customer Payment Options

The following are options that you, our customer, can use to remit payment to us.

1.) **WIRE TRANSFER/ACH DIRECT DEPOSIT**

All incoming wire transfer payments should be sent to:

U.S. Bank, NA

ABA: 0750 00022

For: Marion Body Works, Inc.

211 W Ramsdell St.

Marion, WI 54950

Account: 112530727

Account Type: Checking

Remittance Documentation: [accounting@marionbody.com](mailto:accounting@marionbody.com)

2.) **EXPRESS DELIVERY SERVICE (i.e. Fed Ex, UPS, Airborne, etc.)**

Overnight packages should be addressed directly to our lockbox as follows:

U.S. Bank Remittance Processing

Marion Body Works, Inc., Lockbox 991

777 E. Wisconsin Ave. MK-WI-TCWL

Milwaukee, WI 53202

414-765-4562

3.) **VIA U.S. MAIL TO OUR LOCKBOX**

Our lockbox address for remittances sent via regular U.S. Mail service is:

Marion Body Works, Inc.

Box #78991

Milwaukee, WI 53278-0991

Sincerely,

Karen Mijal

Accounting Manager

Marion Body Works, Inc.

(715) 754-1154 phone

Email: [accounting@marionbody.com](mailto:accounting@marionbody.com)







## EMERGENCY VEHICLE SALES CONTRACT

**BUYER: Idyllwild Fire Protection District**

54160 Maranatha Dr,  
Idyllwild-Pine Cove, CA 92549

**SELLER:**

Marion Body Works, Inc.  
211 W. Ramsdell Street  
P.O. Box 500  
Marion, WI 54950

**1. AGREEMENT TO SELL AND TO PURCHASE**

The seller (referred to as MARION) agrees to sell and buyer (referred to as BUYER) agree to purchase the following apparatus and equipment according to the attached specifications which are a part of this contract:

**DESCRIPTION OF APPARATUS AND EQUIPMENT**

**PRICE**

Marion Type 3 Model 34 West Coast Demo Fire Apparatus  
2018 Model 34E, Type III, 4x4 Pumper  
VIN#: 3HAWETAR5JL344689

Total Price, F.O.B. Marion Body Works, excluding all  
Federal, State and Local Taxes (No taxes applicable as this  
department is tax exempt)

\$349,500.00 exempt)

In case of any conflict between BUYER'S specifications used for all bidders and SELLER'S proposal specifications, SELLER'S specifications will apply. Any sales representative supplied items included above are detailed on Appendix A which is a part of this contract.

**2. CONFORMANCE TO NFPA STANDARDS**

It is the policy of SELLER to manufacture in accordance with all applicable NFPA standards. This contract conforms to all known such standards as of the date of acceptance by SELLER. Any increased costs incurred by SELLER because of future NFPA standards issued during the manufacture of this emergency vehicle will be passed on to BUYER as an addition to the price set forth in #1 above.

**3. COMPLETION ESTIMATE**

**CALENDAR DAYS**

Estimated total calendar days for completion after  
Marion acceptance of signed contract

DEMO MODEL READY

Above estimate based on timely (usually 30 days) approval by you of submitted drawings and specifications, timely receipt of the chassis, and any events beyond the reasonable control of Marion.

**4. WARRANTY**

The standard Marion Emergency Vehicle Warranties shall be in effect upon delivery of this apparatus as outlined below:

- A two (2) year material and workmanship.
- A twenty (20) year structural warranty.

- A ten (10) year paint warranty.
- A seven (7) year electrical warranty.
- A ten (10) year stainless steel plumbing warranty.

**5. CONSEQUENTIAL DAMAGES AND OTHER LIABILITY**

MARION shall not be liable for and disclaims all consequential, incidental and contingent damages and liability whatsoever. See also the standard MARION warranty.

**6. CANCELLATION**

In the event of cancellation by BUYER, MARION shall be entitled to payment of 10% of the contract price for orders not yet begun in production and for orders for which production has begun, the full contract price less the amount of expenses saved by MARION by reason of the cancellation.

**7. PAYMENT**

The entire apparatus shall be paid for by BUYER in full upon delivery. This Emergency Vehicle shall remain the property of Marion until payment in full has been received. A finance charge of 1% per month (annual percentage rate of 12%) will be added to all accounts over 30-days.

**8. ENTIRE AGREEMENT**

This contract including its appendices is the entire understanding between the parties, and merges all prior discussion and agreements between them. Any changes to this contract, including appendices, must be in writing and signed by an authorized representative of the BUYER and MARION.

**AGREEMENT BY BUYER:**

\_\_\_\_\_ By: \_\_\_\_\_  
Buyer's Registered Name

Date Signed \_\_\_\_\_

**ACCEPTANCE BY SELLER:**

Date Signed \_\_\_\_\_ By: \_\_\_\_\_  
Marion Body Works, Inc.



DEALER PORTAL

RESOURCES

PARTS

DEMO

FIND A DEALER

FIRE & EMERGENCY

PUMPER

RESCUE

RESCUE SQUAD

RESCUE PUMPER

COMBO RESCUE

TANKER

SPECIALTY

AERIAL

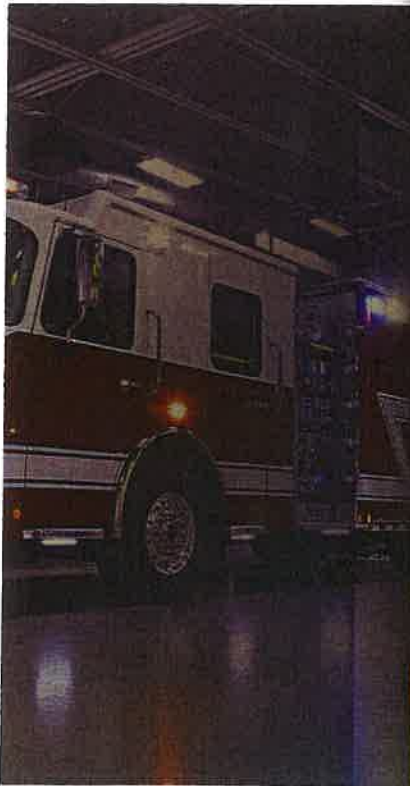
**OUR PUMPERS ARE  
CUSTOMIZED FOR  
FLEXIBILITY.**



pumper at your side, you're confident because you know it's designed and built for your department; every inch is customized to meet your needs. When you're on scene, there's no margin for error. You need to be great ... every time, on every call.



## RECENT PUMPER DELIVERIES



**PELHAM FIRE DEPARTMENT**



## LOADED WITH DIFFERENCE-MAKING FEATURES.

**The right materials**—Marion's standard stainless steel piping, multiplex wiring, and aluminum body construction reduce downtime.

**A reliable pump**—Pair your selection of any size Hale, Waterous, or Darley Midship pump with a lifetime guaranteed 500- to 3,000-gallon water and foam tank.

**Bring what you need**—Customize the compartments and ladder storage on your Marion pumper to fit your specific needs.

**Ergonomic design**—Our pump panels are designed with the user in mind, and safety features are standard.

**Industry-leading warranties**—We provide a standard 2-year bumper to bumper warranty.

## OPTIONS THAT MATCH YOUR NEEDS.

**Drive assured on a solid fire apparatus foundation** by choosing the chassis to form the base of your Marion pumper; select from a custom (Spartan) or commercial (International, Freightliner, Ford, Kenworth or Peterbilt) chassis.

**Control fires with the right pump** by choosing from any size Hale, Waterous or Darley Midship pump.

**Make an impression** with your corrosion-resistant body:

- 100" wide body
- Hosebed width traditional or full-width rescue style
- Construction is fully extruded and all-aluminum, including

## house controls

- Side- or top-mount pump panels
- Black powder-coated pump panels standard; brushed stainless steel available
- Side-hinged gauge panels allow quick pump access for easy service
- Ergonomic design with multiple rear access options for safety and efficiency
- Gauges come with lifetime warranty

**Manage water distribution with confidence** with corrosion-free valves and plumbing made of stainless steel, brass and high-pressure hose; no galvanized plumbing; victaulic piping.

**Fight fires with your right-sized tank** with options ranging from 500- to 3,000-gallons with integral foam available; lifetime warranty is standard.

integrated cab structure to eliminate corrosion

**Store items where you need them** with full- and split-depth compartments that are completely customizable, depending on body and tank design.

**Gain access to your fire truck how you want** with extruded, flush-mounted or roll-up doors.

**Hassle-free electrical you trust** with multiplex wiring standard for easy troubleshooting; "as built" wiring diagrams created specifically for your pumper apparatus.

**Transport ladders and equipment safely** with brackets, racks, built-in or customized storage in your desired location.

Also, be sure to explore our [custom Rescue Pumper](#) truck options.



## STAY CONNECTED WITH MARION.

Elevate your game by subscribing. We'll take care of the rest!

*your email address\**



COMMERCIAL TRUCK  
BODIES

DRY FREIGHT

CURTAIN SIDE

PLATFORM

SPECIALTY

PARTS

DEFENSE

CERTIFICATIONS

SUPPLIER QUALITY

FIRE & EMERGENCY

**PUMPER**

RESCUE

RESCUE SQUAD

RESCUE PUMPER

COMBO RESCUE

TANKER

SPECIALTY

AERIAL

FIND A DEALER

F&E PORTAL

RESOURCES

CUSTOM CABS



715.754.5261

211 W. Ramsdell  
Street

Marion, WI 54950-  
0500



CUSTOMER SURVEY

COMPANY APPAREL



DEALER PORTAL

RESOURCES

PARTS

DEMO

FIND A DEALER

FIRE & EMERGENCY

PUMPER

RESCUE

RESCUE SQUAD

RESCUE PUMPER

COMBO RESCUE

TANKER

SPECIALTY

AERIAL



## GET STARTED ON YOUR CUSTOM FIRE & EMERGENCY TRUCK





We're proud to help those who serve and protect and work hard to deliver quality products to your communities. Contact Marion or one of our reputable dealers to craft the truck you need.

## FIND A DEALER

Your Location

*city, state, or postal code*

**SUBMIT**



Complete this form, and we'll be in contact soon. All fields required.

*first name\**

*last name*

*city\**

*state/region\**

*title\**

*phone number\**

*email address\**

*what can we help you with?*

**SUBMIT →**

## **STAY CONNECTED WITH MARION.**

Elevate your game by subscribing. We'll take care of the rest!

*your email address\**



**COMMERCIAL TRUCK  
BODIES**

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**DRY FREIGHT**

**CURTAIN SIDE**

**PLATFORM**

**SPECIALTY**

**PARTS**

**DEFENSE**

---

**CERTIFICATIONS**

**SUPPLIER QUALITY**

**FIRE & EMERGENCY**

---

**PUMPER**

**RESCUE**

**RESCUE SQUAD**

**RESCUE PUMPER**

**COMBO RESCUE**

**TANKER**

**SPECIALTY**

**AERIAL**

**FIND A DEALER**

**F&E PORTAL**

**RESOURCES**

**CUSTOM CABS**

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**CUSTOM VEHICLES**

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**NEWS**

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**ABOUT**

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**HISTORY**

**CAPABILITIES**

**WHY ALUMINUM**

**CAREERS**

**CONTACT**

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**CHARITABLE GIVING**



**715.754.5261**

**211 W. Ramsdell  
Street**

**Marion, WI 54950-  
0500**



**CUSTOMER SURVEY**

**COMPANY APPAREL**

**EMPLOYEE PORTAL**

**ZOOM**

**CONFERENCING**

**EXAVALT SFTP**