

Estimate

Date: 02/01/2021

Estimate #: 8927



Emergency Apparatus Maintenance, Inc.
7512 4th Avenue
Lino Lakes, MN 55014

TEL: 651.786.4463 · 1.800.EAM.3911
FAX: 651.786.0517
EML: service@eamservice.com

Jake Olsen
Marshall Fire Department
201 East Saratoga St
Marshall, MN 56258

Sales Rep: Lance Olson

Signature: _____

Description

Engine 360

Quantity	Description	Unit Cost	Cost
1	<p>Conduct complete Vehicle Safety Inspection. Inspection conducted by Emergency Apparatus Maintenance Inc. Professional/ ASE/EVT/DOT Certified Technician.</p> <p>Remove all tires and wheels. Remove all Brake drums. Replace all Brake Drums/Shoes/Hardware and Brake mounting system. Clean and inspect all wheel bearings. Replace all 4 Wheel seals and 4 Axle seals.</p> <p>Replace all 40 wheel studs along lug nuts and 20 rear axle inner nuts. This is a Safety concern with heavy emergency vehicles. Our company has seen an alarming rate of wheel stud failures causing drive tires to break away from the vehicle causing a true safety concern. We attribute this failure to the constant hard turning caused when entering and exiting the fire station with these large vehicles.</p> <p>Replace both front and rear chassis springs, spring pins and shock absorbers as necessary.</p> <p>Conduct 12 volt electrical system load test prior to any upgrades, record amp draw and document, after upgrades perform same test and record amp draw. Typical LED Lighting upgrades see a reduction of AMP draw from 40-50%.</p> <p>Upgrade all Emergency and essential Safety lighting to NFPA 1901 standards utilizing Super LED lighting. Upgrade all DOT lighting to Super LED lighting. Super LED lighting will allow the installation of additional required lighting without extensive upgrading to existing vehicle wiring infrastructure.</p> <p>Lighting will be upgraded with Super LED Whelen, TecNiq or comparable to provide quality that will give many years of service.</p> <p>Marshall Engine 360 LED Light Upgrade to include; Weldon # 9186-8580-29 X 2, Weldon # 2631-2222-30 X 5, Pierce # 61-5092 X 3, Trucklite 15 Series X 10, Unity # 8848 X 2, Code 3 Arch Beacon X 2, FRC Scene Light X 2, Whelen Traffic Advisor, Whelen Light Bar,</p>	\$105,000.00	\$105,000.00

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	TecNiq K90-WBU0-1 X 2, TecNiq K90-AAT0-1 X 2, TecNiq K90-STRO-1 X 2, TecNiq K60-RR00-1 X 8, TecNiq K60-1C00-1 X 6, TecNiq K90-1C00-1 X 6, TecNiq K70-RR00-1 X 2, TecNiq K70-1C00-1 X 2, TecNiq T41-WCOT-1 X 11		
	3 ea Pump Panel Lights 1 Pump Panel Amber, activated by pump engaged 7 Ground lights 4 cab doors, center and rear facing of vehicle. 2 Rear Stop-Turn/Tail and Back-up with Cast 3 housing 2 rear facing Warning REMOVE REAR FACING FLOODS UPGRADE TO LED SCENE STYLE		
	Upgrade headlights to JW Speaker LED high and low beam 8800 headlights.		
	Install 5 LED light water level gauge to existing position on pump panel.		
	Replace all interior dome lights, convenience lights and accessory lights with LED where light head replacements are available in LED.		
	Back-up Camera to rear of vehicle. Install dash mounted color screen. Unit will be on at all times when vehicle batteries are on to add safety through the ability to see in the blind spot directly behind the vehicle.		
	Install Whelen LED Traffic Advisor Arrow Stick to the upper rear portion of vehicle body. Control panel mounted on cab dash. (location determined by customer)		
	Install 3M Diamond Grade Chevron Safety Reflective Dot system to rear facing diamond plate at rear of vehicle per NFPA 1901.		
	Install 2 NFPA 1901 Compliant Jumbo wheel Chocks and mounts.		
	Install Kussmaul Auto Pump System with Auto Charge 11 and 20 amp water proof auto eject. Price includes 110 volt automatic air pump/battery charger and shore line plug eject along with labor to install. This includes troubleshooting and repairing all air leaks in vehicle air system to DOT Compliance.		
	Install cab interior mounted 110 volt power outlet and power strip for charging station for Fire Fighter equipment. Only available if Auto Eject is installed.		

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	<p>Access vehicle water tank. Remove cover access hole and inspect water tank for corrosion and or cracking.</p> <p>Install "Our Family Helping Your Family" graphics with customers approval, location TBD.</p> <p>Engines / Tankers medium and heavy duty diesel applications; Complete Emergency Vehicle Safety Inspection and Full Service conducted per Emergency Apparatus Maintenance service report Includes engine oil, Manufacturers oil, fuel and coolant filters and chassis lubrication. ...</p> <p>During services oil sample analysis will be performed on Engine oil, transmission fluid and generator oil. Analysis documentation will be provided to the deaprtment.</p> <p>Pump tests conducted in accordance with ISO / NFPA 1911 Standards, performed at your station in our portable pump test trailer up to 3,500 GPM. All pumps that pass all phases of the test are tagged and certifying paperwork is sent to the department.</p> <p>Our pump service is conducted in accordance with manufacturer recommendations by our trained pump professional. To include pump transmission oil change, outboard bearing grease/oil check, pump shift lubrication/oil, operation of transfer valve, relief valve operation, pilot valve operation and screen inspection, priming system operation and oil level, discharge and suction valve operation and linkage lubrication, drain valve operation and linkage lubrication, operational run – check packing drip rate, accessory operation and dry vacuum test. EAM is a factory authorized service center for all major fire pump manufacturers.</p> <p>Replace air filter.</p> <p>Service Auto Transmission</p> <p>Service A/C</p> <p>Service Air Dryer</p> <p>Service Foam Pro Systems</p> <p>Service Generator</p> <p>Inspect radiator condition, re-core or replace if needed. If truck has large transmission cooler located under truck, remove, inspect and have thoroughly cleaned and pressure tested.</p> <p>Service differentials.</p> <p>Undercoat front and rear wheel wells.</p> <p>Replace all compartment lights with replacement LED - TBD.</p>		

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	Replace chrome lug covers and rear axle hub covers.		
	Inspect body for corrosion, estimate body and paint repair.		
	Clean and alumi-brite all aluminum diamond plate surfaces. Complete buff all exterior painted surfaces.		
	Inspect all seats and interior fabric. Update and/or replace where needed.		

Summary

This estimate is based on the average parts and labor required to complete the stated repairs. These estimates are figured upon average accessibility to parts requiring repairs and will be charged on a time and materials basis.

*Thank you for the opportunity to provide an estimate for this project. If you have any questions regarding this estimate, or if we can be of further assistance, please call us at **651.786.4463** or **1.800.326.3911**, or email us at service@eamservice.com.*