



Shop Order

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K & T Fire Equipment
 Tom York
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Sales Rep: K&T Fire Equipment Tom York	Terms: Chassis two weeks prior to delivery to Metalf Body and Equipment COD
Drawing #: FT-11615	
Est. Delivery Date: / /	
Customer PO #:	Penalty:
Customer #:	None
QPF #:	

Exp. Date: 03/05/2023
Quote No: G-Newfield-2023-0010
Job/Order No: 23043
BODY: 00-10-11 Metalfab Pumper - NFPA 05/13

10/20/2025

PART NO	QTY	DESCRIPTION
		== Metalfab Pumper - NFPA 05/13 - 0.000 ==
		Change Order B
00-05-0040	1	Dealer - K&T Environmental Equipment
00-10-1510	1	Metalfab Pumper
00-20-0500	1	List of References not provided
00-20-1000	1	Company Profile
00-20-1500	1	Standard Body Warranty
00-20-1550	1	Metalfab Limited Ten (10) Year Paint and Corrosion Warranty
00-20-1700	1	Hale Pump Warranty - 5 years
00-20-1800	1	Polypropylene Tank Lifetime Warranty
00-20-2000	1	Plant Visits - unlimited at customer expense
00-20-3000	1	No Bonding Required
00-20-3500	1	Certification for Fusion Welding of Steel and Aluminum
00-20-4000	1	Quality System registered to ISO 9001:2015
00-20-4500	1	Fire Apparatus Manufacturers' Association Membership
		GENERAL INFORMATION
10-11-0000	1	Intent
10-11-0110	1	Vehicle data recorder included with chassis
10-11-0500	1	NFPA 1901-2016 Compliance
10-11-2000	1	UL Testing 1901

PART NO	QTY	DESCRIPTION
10-11-2100	1	Maximum length not specified
10-11-2200	1	Maximum height not specified
10-11-2400	1	Overall length is 30' or more
10-11-2410	1	Overall height is 119" or more
10-11-2500	1	General Construction
10-11-3000	1	Manuals - two copies ***Two copies of chassis manuals are required.
10-11-3600	1	Delivery - FOB Fire Department - by K&T
10-11-4000	1	Payment Terms - Chassis 2 weeks prior, Balance COD Customer to pay for the chassis two weeks prior to its arrival at Metalfab, balance for body and equipment due upon delivery to the Fire Department (COD)
10-20-1400	1	Hose capacity exceeding ULC/NFPA requirements Customer will also carry 1000' x 5" LDH = 1090 pounds
10-20-2100	1	Equipment carrying capacity - standard NFPA Pumper CHASSIS INFORMATION
20-11-1000	1	Chassis supplied by Metalfab - Freightliner 114SD 2025 Freightliner 114SD D13-450 HP@1625 RPM, 1900 gov; 1650 torque @ 975 RPM 16,000 FA, 46,000 RA; 62,000 GVW with ESC 217" WB, 151" CA, 100" AF; 60 USG fuel, 13 USG DEF 18T driveline, boosting lugs, air suspension 385 front tires, 11R rear tires; aluminum wheels L2225EY Candy Apple Red Air ride rear suspension with dump valve, auto fill Metalfab will install a switch on the chassis dash to control high idle through the Pump Governor with the appropriate interlocks.
20-11-1500	1	2013 Emission chassis modifications
20-21-0500	1	Fluid capacity plate
20-21-0600	1	Pumping test plate
20-21-1000	1	Maximum riders sign - 2 persons
20-21-1500	1	Seat belt warning labels - 2 door chassis
20-21-1520	1	Helmet warning label - do not wear helmet
20-21-1570	1	LED Tire Pressure Indicators - Tandem Axle
20-21-1600	1	Apparatus Information Label An information label is provided in the chassis cab, visible to the driver, stating: "When manufactured, this vehicle was: ** m high ** m long ** kg GVW Changes in height since the apparatus was manufactured shall be noted on this plate by the Fire Department"
20-21-2000	1	Non removable key
20-21-2500	1	Shifter lock not required
20-21-3500	1	Rear step warning label
20-21-3800	1	Front mudflaps Installed by Metalfab if the chassis fender mudguards do not extend below the cab entry steps

PART NO	QTY	DESCRIPTION
20-21-4000	1	Rear mudflaps - Metalfab Logo
20-31-0200	1	Fuel fill label -Ultra Low Sulfur Diesel only
20-31-0500	1	Alum tread fuel tank trim, Conv - 2 door Vertical trim only installed by Metalfab, OEM cab steps remain
20-31-1900	1	Chassis cab not painted
20-31-7010	1	SS nut covers, hub caps and high hats - tandem axle By Metalfab
20-31-7500	1	Console in cab Install 50-11-0900 switch panel, 50-11-1400 siren, and 30-51-0500 pump shift in console. Storage area with hinged cover and lift and turn latch provided at rear of console. Gray zolatone finish
20-41-0600	1	Intake air shutoff for engine not required
20-41-1100	1	Transmission programming - Allison WT ***Includes "Pump Engaged" light next to pump shift on chassis instrument panel.
20-41-1500	1	Extend exhaust pipe - RS front of rear wheels Engineering to specify exhaust pipe material as required by the chassis manufacturer. Engineering to sign off on the exhaust configuration to make sure it meets the chassis manufacturer's emission specifications.
20-41-1900	1	Battery boost terminals with chassis Included with chassis
20-41-2000	1	Chassis batteries remain in OEM location
20-41-2510	1	Fuel fill at step fuel tank under cab
20-41-2600	1	Chassis fuel tank remains in OEM location
20-41-5010	1	Rear Tow Hooks - through rear of body Installed by Metalfab, include rubber gasket and trim plate around opening in body
20-51-0710	1	Master Battery Disconnect included with Freightliner chassis
20-51-2500	1	Back up alarm included with chassis
20-51-3400	1	Protection valve installed for air operated accessories
20-51-4000	1	Auto eject for air inlet - LS Mount on LS pump panel
20-51-6504	1	Kussmaul Auto Charge 40/20 with display 091-216-40/20 with 091-200-IND display
20-51-65AA	1	Rescue tool charging through the Kussmaul Battery Saver Circuit RS rear compartment (R4) - 20 A circuit
20-51-7102	1	Electric System Manager included with chassis - VMUX
20-51-7500	1	Super Auto eject for 120 v - 20 A with sealed enclosure Mount on LS pump panel
20-51-8505	1	Engine compartment light included with chassis
20-51-9001	1	Air horns provided with chassis Mounted on hood with dual lanyards
20-52-3500	1	Chassis steering wheel lined up by Metalfab

PART NO	QTY	DESCRIPTION
20-52-4000	1	Rear View Camera system Rearview Systems STM5600 with 5.6" colour monitor in cab Mount monitor on top of the dash with the RAM mount
20-60-0400	1	Chassis wheelbase does not change
		PUMP AND PLUMBING
30-11-8200	1	Hale QMAX 1500 USGPM single stage pump
30-12-3400	1	Packing for Hale QMAX/QTWO pumps
30-15-0104	1	Plumbing - Hale manifold pump SM SS
30-20-0500	1	Valves and controls - side mount panel
30-20-1002	1	Akron valves specified
30-20-1600	1	Piping stainless steel - general
30-20-1700	1	1-1/2" thread specifications NPSH
30-20-1800	1	2-1/2" thread specifications NST
30-20-2000	1	Piping hydrostatic test
30-20-2500	1	Anodes in suction and discharge piping Install one anode on discharge side of pump, one anode on suction side of pump - do not use teflon tape or thread sealant. Paint flange silver and mask brass anode before painting for visibility.
30-21-5560	1	Tank to Pump SS 3" w/ check valve manifold pump
30-22-0520	1	Tank Fill valve 2" SS
30-31-4010	1	Suction - 6" not gated each side manifold pump
30-32-7540	1	Suction - 2-1/2" left side SS, bleeder, Hale manifold pump
30-32-8040	1	Suction - 2-1/2" right side SS, bleeder, Hale manifold pump
30-40-2007	1	5" RS discharge, SS, bleeder, 3" valve
30-41-2020	1	2-1/2" RS discharge SS, bleeder, Hale manifold pump
30-41-2520	2	2-1/2" LS discharge SS, bleeder, Hale manifold pump
30-43-1520	2	2-1/2" rear discharge SS, plumbed 2-1/2", bleeder Both right side, see drawing
30-44-0520	2	1-1/2" crosslay (each) SS, 2" valve, bleeder 200' capacity
30-44-3520	1	2-1/2" crosslay SS, plumbed 2-1/2", bleeder 150' capacity
30-44-6520	1	Piping for monitor SS, plumbed 3", bleeder Maximum height with monitor installed to be under the body height when stowed Make and Model of Monitor Akron Hi Riser by K&T
30-51-0500	1	Pump shift-Midship air ***Includes "Pump Engaged" and "OK to Pump" indicator lights on chassis instrument panel ***Includes "Throttle Ready" indicator light on Pump operating panel
30-51-0700	1	Pump Gearbox mounted manual over ride for pump shift
30-51-6800	1	FRC InControl Governor/Throttle engine display with throttle knob plus High Idle Provide a high idle switch on the chassis dash to provide stationary high idle with the appropriate interlocks to meet ULC
30-51-7000	1	Suction side relief V/V, manifold pump
30-51-7725	1	Trident Automatic Air Primer 3 barrel 1 location

PART NO	QTY	DESCRIPTION
30-51-77AA	1	Additional air tank provided with chassis
30-51-8040	1	Heat Exchanger by Metalfab
30-52-1000	1	Master drain V/V, 12 port
30-52-4015	1	Foam System - Hypro FoamPro 1600 The crosslay outlets are to be foam solution capable - 2 x 1-1/2" and 1 x 2-1/2"
30-52-9100	1	Foam concentrate label at foam tank fill
30-52-9200	1	Foam System Instruction Plates
30-52-9400	1	NFPA Foam System certification test
WATER AND FOAM TANKS		
40-11-2100	1	Polypropylene water tank (Imperial gallons)
40-11-2200	1	Water tank capacity certification (tank manufacturer)
40-11-6900	1	Tank capacity 2000 US Gallons
40-12-4600	1	Foam cell - 20 US gallon
40-21-0500	1	3" tank to pump connection
40-22-0500	1	2" tank fill connection
40-23-0500	1	1" water level gauge connection
40-23-1060	1	10" Newton dump connection
40-23-1070	1	3" direct fill connection
40-30-0400	1	3" plug in sump box
40-30-1100	1	Water Fill Box forward right side Located to maximize hose storage and allow ladders to be stowed on left side
40-30-12AA	1	Foam Fill Box front left corner Located to maximize hose storage and allow ladders to be stowed on left side
40-31-4710	1	Newton dump, top mount manual operation, SS Lock open device is required
40-31-5610	1	Rotating dump chute for Newton dump SS with telechute
40-31-5800	1	Support for rotating dump chute if necessary Engineering to determine if this support is required
40-31-8025	1	5" rear fill with 3" valve and SloCloz, bleeder Include 1550296 Slo Cloz
ELECTRICAL		
50-11-0300	1	Base electrical system - multiplex
50-11-0600	1	Warning Light Certification
50-11-0700	1	Low Voltage Electrical system test
50-11-0800	1	Low Voltage Electrical System Documents As required by ULC and NFPA standards
50-11-0900	1	Rocker switch panel with master warning switch Mount in cab console ***Rocker switch assignments: E-MASTER -LIGHT BAR RED -LIGHT BAR WHITE -FLASHING WARNING -REAR BEACONS -LEFT SCENE -REAR SCENE -RIGHT SCENE

PART NO	QTY	DESCRIPTION
		-REAR FLOODS
50-11-1400	1	Federal PA300 100 watt siren Mount in console
50-11-1620	1	Siren speaker, 100 watt, in front bumper - Federal AS124
50-11-2600	1	Siren to be accessible to driver and officer
50-11-59AA	1	Federal Allegiant Discrete 53" light bar ALGT53D-NFPA2 Standard layout per model number 1571276
50-11-6501	1	Rear Directional Light not required
50-11-9015	1	Rear beacons - Federal NVG10 LED (pr) - both red Mount even with top of body
50-12-5020	1	Front LED flashers (pr)-red Federal QL64XF-R Install in chassis grille
50-12-5110	1	Rear LED flashers (pr)-red Federal QL64XF-R Install in tail light module
50-12-5210	1	Front side inter lts (pr)-red LED Federal QL64XF-R Install in sides of hood
50-12-5310	1	Body side inter lts (pr)-red LED Federal QL64XF-R Install behind the rear axle centreline in fenderwell
50-12-5410	1	Additional body side inter lts (pr)-red LED Federal QL64XF-R Install ahead of the rear axle centreline in fenderwell
50-21-1505	1	Rear floods (pr) Unity LED Note that these lights are also used as rear step lights and cannot be managed
50-21-2531	2	FRC telescoping SPECTRA LED 12 V flood (ea) Switch on the pump panel
50-21-5100	1	Compartment lighting - LED tube lights in each compartment (rollup doors)
50-21-5500	1	Door Ajar warning light Warning label in cab to read: "Do Not Move Apparatus when Light is on" Locate above the driver's seating position
50-21-8001	1	Step lights for body steps - LED
50-21-8200	1	Step lights for chassis steps - LED
50-21-8600	1	LED clearance lts and reflectors
50-21-8800	1	LED intermediate turn signal/clearance/reflector length >30'
50-21-88AA	1	Command light tower Shadow SL422D W1 Mounted beside the foam fill tower on top of tank ahead of front partition, hinged on right side of body Command Light control on forward sidewall of L1 mid height of lower section of compartment
50-22-0800	1	Federal 4 QuadraFlare LED tail/brake-turn-backup-warning module (pr)

PART NO	QTY	DESCRIPTION
50-31-6043	1	Akron Revel scene lights (pr) right side upper Switched in cab These lights can be managed
50-31-6044	1	Akron Revel scene lights (pr) left side upper Switched in cab These lights can be managed
50-31-6045	1	Akron Revel scene lights (pr) rear upper Switched in cab These lights can be managed
50-31-6550	1	Ground lighting (LED Lumabar) - 2 door chassis
50-31-6570	1	Ground lighting (LED Lumabar) - side mount body
50-35-0560	1	VHF antenna with base - commercial chassis Wired to cab console
50-35-0570	1	UHF antenna with base - commercial chassis Wired to cab console
BODY		
60-10--160	1	Rescue style compts 25" depthfull height. Full width body with rear notches for beacons
60-10-1600	1	Tandem axle extruded aluminum body with notch for ladder rack
60-10-4100	1	No "beavertail" rear step supports
60-10-4600	1	Painted fender surround
60-10-4700	1	Integral aluminum fender trim
60-10-5400	1	Diamondback pumphouse steps
60-10-5430	1	Diamondback 19" rear step
60-10-6000	1	Extruded rub rail
60-11-0300	1	Front left side compartments full height
60-11-0700	1	Front right side compartments full height
60-11-1000	1	Rear left side compartments full height
60-11-1400	1	Rear right side compartments full height
60-11-2000	4	High side compartment (over 18") each
60-11-3100	1	No rear compartment
60-11-5500	4	Rollup door - standard height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5520	4	Rollup door - full height Natural aluminum finish Includes magnetic door switch, LED tube lights, rubber bumpers to prevent pinch point
60-11-5655	4	Amdor pull straps - Flex - HD (for door opening 20"-37")
60-11-5660	4	Amdor pull straps - Flex - HD (for door opening 49"-70")
60-31-4100	1	Extruded aluminum handrails Minimum 2" clearance from handrail to any surface
60-31-5000	1	Zico access Ladder at rear of unit Minimum 7" clearance between rung and any obstruction Mounted on LS of body at rear Includes auxiliary amber and red lamps on rear rub rail

PART NO	QTY	DESCRIPTION
60-31-5500	1	Steps at rear of body (folding) RS only Maximum height between steps is 18"
60-31-55AA	1	Rear intermediate body step to be full width and 12" deep Locate above rear dump and beside the rear access ladder
60-31-5600	1	Steps and grab handles at front of body next to pump panel Maximum height between steps is 18"
60-31-6500	1	Compartment matting - black plastic interlocking tile
60-31-8006	4	BA bottle compt (ea)-fender well
60-31-8200	3	Sliding vertical tool board Specify locations at precon: Tool Board 1 - L4 integral with sliding tray Tool Board 2 - R2 in center Tool Board 3 - R3 in center Layout drawing approved by customer
60-31-8600	4	Sliding tray (ea) - 400 pound capacity - standard Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Includes locking hardware open and closed Located in L1, L4, R1, and R4 compartments at floor level
60-31-8600	1	Sliding tray (ea) - 400 pound capacity - standard Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Install below swing out tool board and above centre divider in L1
60-31-9000	2	Tip down tray - 30 degree, 200 pound capacity Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Aluminum hardware for 200 pound rating Tray 1 - L2 above SCBA brackets Tray 2 - L3 above SCBA brackets
60-31-9600	3	Adjustable shelf (ea) Reflective stripe is applied on the exposed edge for visibility when the compartment door is open Shelf 1 - R1 full depth Shelf 2 - R1 full depth Shelf 3 - R1 full depth Shelf 4 - R1 full depth Shelf 5 - R4 full depth
60-31-9600	2	Adjustable shelf (ea) Reflective stripe is applied on the exposed edge for visibility when the compartment door is open
60-32-3550	1	Two adjustable hose divider (each) and one fixed next to ladder storage Hand hold required in end
60-32-7500	1	Hose bed - aluminum To accommodate standard NFPA hose load plus 1000' x 5" LDH

PART NO	QTY	DESCRIPTION
60-33-0000	1	Paint exterior - Imron Elite *** Paint code and color to match cab L2225EY red
60-33-0200	1	Undercoat vehicle with KROWN rust protection
60-33-0600	1	Chassis wheels not painted Polished aluminum
60-33-1000	1	Paint pump and plumbing job colour
60-33-1500	1	Buffed finish compartment interior
60-33-2200	1	Lettering - 80 letters up to 3" tall - 3 colour Layout drawing approved by customer Aug 14, two flags added
60-33-3100	1	Reflective stripe - 6" white 50% of perimeter each side, 25% of perimeter front Layout drawing approved by customer Aug 14
60-33-3310	1	Reflective stripe - red and yellow chevron at rear 50% of perimeter each side and rear, 25% of perimeter front
60-33-3510	1	Tarp over hose bed - black with shock cord and hooks
60-33-3600	1	Reflective stripe - inside entry doors 96 square inches minimum inside each cab and crew cab entry door
60-33-4600	1	Aluminum cover over crosslays - with end tarps (black) Fasten with shock cord and hooks
60-40-5500	2	Suction hose tube (each) with door To accommodate 15' suction hoses per accessory list Door to be equipped with a door ajar switch
60-40-9000	1	Tube mount for ladders, with rear door Locate tube in hose bed on left side, 14' Alco Lite PRL roof ladder and 24' Alco Lite 2 section PEL extension ladder Layout drawing approved by customer Door to be equipped with a door ajar switch
60-41-1015	2	Pike Pole tube in suction hose tube
60-91-0800	1	Swing out peg board hinged center of front left high side compartment Includes D handle L1 compartment
INSTRUMENTATION		
70-11-0500	1	Side mount instrument panel No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position
70-11-1500	1	Stainless steel instrument panels No gauge or visual display can be higher than 84" above the operator's standing position Midpoint of any control cannot be higher than 72" above the operator's standing position
70-11-3200	1	Colour coded tags
70-11-4506	1	Diamondback grip type panel hood step right side
70-11-4606	1	Diamondback grip type panel hood step left side

PART NO	QTY	DESCRIPTION
70-11-5110	1	Open storage at rear top of pump house Includes lighting controlled by park brake Include drains with hoses to below the chassis frame
70-11-5500	1	Right side tread plate pump access door No opening dimension less than 18"
70-11-7500	1	Heat pan-aluminum
70-11-8100	1	Heater in pump compartment not requested
70-20-1110	2	4-1/2" compound gauge - PSI only 0-400 To be within 8" of each other - edge to edge
70-20-2120	10	2-1/2" pressure gauge - PSI only 0-400 Gauge to be no more than 6" from edge of the gauge to the center of the control.
70-20-2500	1	Primer control
70-20-3300	1	FRC InControl Governor Control Throttle can be no lower than 42" and no higher than 72" from operator's standing position.
70-20-3510	1	Electric water level gauge on pump panel and at rear, Class One
70-20-6500	1	Test gauge panel Mount below the compound gauges for proper draining
70-21-1600	1	Electric Foam Level gauge not required
70-21-5500	1	Panel readout for Battery Conditioner Mount on LS pump panel near the 120 volt auto eject
ACCESSORIES supplied and installed by K & T		
80-18-0500	8	SCBA bracket with strap - compt mount - supplied by Metalfab Install 4 each in L2 and L3, unistruts on back wall for adjustment Layout drawing approved by customer
99-99-9901	1	Akron Hi Riser deck gun w stack tips and 5060 auto nozzle
99-99-9902	2	15" x 6" suction hose
99-99-9903	1	6 " Low level suction strainer w jet
99-99-9904	1	30 gallons class A foam
99-99-9905	1	Special rescue tool holders for electric bat tools
99-99-9906	1	6" femx 4 1/2" fem hydrant connector
99-99-9907	1	6" box strainer