Colchester Fire Department

Tanker / Tender International Chassis Specifications

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Model Profile

2021 SBA (HV607)

AXLE CONFIG:

4X2

APPLICATION:

Fire/Pumper (Emergency)

MISSION:

Requested GVWR: 46000. Calc. GVWR: 46000 Calc. Start / Grade Ability: 31.06% / 3.67% @ 65 MPH

DIMENSION:

Wheelbase: 189.00, CA: 121.90, Axle to Frame: 91.00

ENGINE, DIESEL:

{Cummins L9 400} EPA 2021, 400HP @ 2100 RPM, 1250lb-ft Torque @ 1400 RPM, 2200 RPM Governed Speed, 400 Peak HP (Max), (RATED FOR EMERGENCY VEHICLES ONLY)

TRANSMISSION, AUTOMATIC:

{Allison 3000 EVS} 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor

CLUTCH:

Omit Item (Clutch & Control)

AXLE, FRONT NON-DRIVING:

{Meritor MFS-16-143A} Wide Track, I-Beam Type, 16,000-lb Capacity

AXLE, REAR, SINGLE:

{Dana Spicer S30-190} Single Reduction, 30,000-lb Capacity, W Wheel Ends Gear Ratio: 6.14

CAB:

Conventional, Day Cab

TIRE, FRONT:

(2) 315/80R22.5 Load Range L UNISTEEL G291 (GOODYEAR), 491 rev/mile, 68 MPH, All-Position

TIRE, REAR:

(4) 315/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev/mile, 68 MPH, All-Position

SUSPENSION, REAR, SINGLE:

31,000-lb Capacity, Vari-Rate Springs, with 4500-lb Capacity Auxiliary Rubber Springs

PAINT:

Cab schematic 209WL

Location 1: NAV 0001, Canyon Black Location 2: 4198, Yellow (Custom)

Chassis schematic 936WL Frame: 4198, Yellow (Custom)

IH Code Description

HV60700 Base Chassis, Model HV607 SBA with 189.00 Wheelbase, 121.90 CA, and 91.00 Axle to

Frame.

AXLE CONFIGURATION

1ANA AXLE CONFIGURATION {Navistar} 4x2

ENGINE

12ESU ENGINE, DIESEL {Cummins L9 400} EPA 2021, 400HP @ 2100 RPM, 1250 lb.-ft

Torque@ 1400 RPM, 2200 RPM Governed Speed, 400 Peak HP (Max), (RATED FOR

EMERGENCY VEHICLES ONLY)

12UYH RADIATOR Aluminum; Cross Flow, Front to Back Series System, 1469 Sq. In, with

1172 Sq. In Charge Air Cooler

Includes:

DEAERATION SYSTEM with Surge Tank

HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant

Hose Clamps

RADIATOR HOSES Premium, Rubber

12THT FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed with Residual

Torque Device for Disengaged Fan Speed

Includes: FAN Nylon

12VBC AIR CLEANER Single Element

12703 ANTI-FREEZE Red, Extended Life Coolant; To -40 Degrees F/ -40 Degrees C, Freeze

Protection

12WZJ EMISSION COMPLIANCE Low NOx Idle Engine, Complies with California Clean Air

Regulations; Includes "Certified Clean Idle" Decal located on Driver Door

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

12WYK ENGINE WATER COOLER {Sen-Dure} Auxiliary, For Use with Fire Trucks

12VHJ FEDERAL EMISSIONS {Cummins L9} EPA, OBD and GHG Certified for Calendar

Year 2020

IH Code	<u>Description</u>
12VXT	THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel.
TRANSMISSION	
13AUK	TRANSMISSION, AUTOMATIC {Allison <u>3000 EVS</u> } 5th Generation Controls, Close Ratio, 6-Speed with Double Overdrive, with PTO Provision, Less Retarder, Includes Oil Level Sensor.
13WUZ	ALLISON SPARE INPUT/OUTPUT for Emergency Vehicle Series (EVS), 127/198 Includes J1939 Based Auto Neutral; Fire/Pumper, Tank, Aerial/Ladder
13WVW	NEUTRAL AT STOP OMIT
13WAW	OIL COOLER, AUTO TRANSMISSION {Modine} Water to Oil Type
13XAL	PTO LOCATION Customer Intends to Install PTO at Left Side of Transmission
13WYU	SHIFT CONTROL PARAMETERS {Allison} 3000 or 4000 Series Transmissions, Performance Programming.
13WLP	TRANSMISSION OIL Synthetic; 29 thru 42 Pints.
13WET	TRANSMISSION SHIFT CONTROL Column Mounted Stalk Shifter.

REAR AXLES, SUSPENSIONS

14AHH AXLE, REAR, SINGLE {Dana Spicer S30-190} Single Reduction, 30,000-lb Capacity,

W Wheel Ends. Gear Ratio: 6.14

14VAJ SUSPENSION, REAR, SINGLE 31,000-lb Capacity, Vari-Rate Springs, with 4500-lb

Capacity Auxiliary Rubber Springs.

CLUTCH Omit Item (Clutch & Control)

FRONT AXLES

CLUTCH

11001

2ARU AXLE, FRONT NON-DRIVING {Meritor MFS-16-143A} Wide Track, I-Beam Type,

16,000lb Capacity.

FRONT SUSPENSIONS

3ADE SUSPENSION, FRONT, SPRING Parabolic Taper Leaf, Shackle Type, 16,000-

lbCapacity, with Shock Absorbers.

CABS, COWLS, BODIES

16030 CAB Conventional, Day Cab

16ZBB ACCESS, CAB {Bustin} Aluminum, Driver & Passenger Sides, Two Steps per Door, for

use with Day Cab or Extended Cab, Self-Cleaning

16BAM AIR CONDITIONER with Integral Heater and Defroster

16VKK CAB INTERIOR TRIM Diamond, for Day Cab

Includes

CONSOLE, OVERHEAD Molded Plastic with Dual Storage Pockets, Retainer Nets and

CB Radio Pocket; Located Above Driver and Passenger

DOME LIGHT, CAB Door Activated and Push On-Off at Light Lens, Timed Theater

Dimming, Reading Lights; Integral to Overhead Console, Center Mounted

SUN VISOR (3) Padded Vinyl; 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver

Side

16VHX CAB MOUNTING HEIGHT EFFECTS High Cab in Lieu of Mid High Cab Mounting

(Approx. 4.5")

16WSK CAB REAR SUSPENSION Air Bag Type

16GDG GAUGE CLUSTER Premium Level; English with English Speedometer and Tachometer,

for Air Brake Chassis, Includes Engine Coolant Temperature, Primary and Secondary Air Pressure, Fuel and DEF Gauges, Oil Pressure Gauge, Includes 5 Inch LCD Color Display

16HGH GAUGE, OIL TEMP, AUTO TRANS for Allison Transmission

16SGH GRAB HANDLE, EXTERIOR (2) Chrome, for Cab Entry, (1) Towel Bar Type, with

Anti-Slip Rubber Inserts Mounted Left Side at B-Pillar, (1) Towel Bar Type Mounted

Right Side on Vertical Exhaust

16XJN INSTRUMENT PANEL Flat Panel

16HKT IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster

MIRRORS (2) Aero Pedestal, Power Adjust, Heated, Turn Signals, Bright Heads, Black

Arms, 6.5" x 14" Flat Glass, Includes 6.5" x 6" Convex Mirrors, for 102" Load Width

Notes:

: Mirror Dimensions are Rounded to the Nearest 0.5"

16VBZ SEAT BELT All Red; 1 to 3

16JJE SEAT, DRIVER {National 2000} NFPA Compliant, Air Suspension, High Back with

Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -

3 to +14 Degree Back Angle Adjust

CABS, COWLS, BODIES

16SMN SEAT, PASSENGER {National} Non Suspension, High Back, Fixed Back, Integral

Headrest, Vinyl

16HCK 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 1 to 3 Seat Belts

16WJU WINDOW, POWER (2) and Power Door Locks, Left and Right Doors, Includes Express

Down Feature

FRAMES

1CAJ FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.866" x 3.622" x

0.437" (276.0mm x 92.0mm x 11.1mm); 456.0" (11582mm) Maximum OAL

1MDP BUMPER, FRONT Contoured, Stainless Steel, Polished

1SAL CROSSMEMBER, REAR, AF (1)

1570 TOW HOOK, FRONT (2) Frame Mounted

1WGS WHEELBASE RANGE 189" (480cm) Through and Including 256" (650cm)

BRAKES

4091 BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

Includes:

BRAKE LINES Color and Size Coded Nylon

DRAIN VALVE Twist-Type

GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster

PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel

QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2,: 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

4AZJ AIR BRAKE ABS {Bendix AntiLock Brake System}, with Automatic Traction Control.

BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 sq. in. Long Stroke Brake

Chambers

4EXV BRAKE CHAMBERS, FRONT AXLE {Bendix} 24 sq. in.

4LAA SLACK ADJUSTERS, FRONT {Haldex} Automatic

4WBX DUST SHIELDS, FRONT BRAKE for Air Brakes

4NDA BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 36/36 sq. in. Long Stroke

Brake Chambers and Spring Actuated Parking Brakes

IH Code	Description		
4EXT	BRAKE CHAMBERS, REAR AXLE {Bendix EverSure} 36/36 Spring Brake		
4LGA	SLACK ADJUSTERS, REAR {Haldex} Automatic		
4773	BRAKE SHOES, REAR Cast		
4WDM	DUST SHIELDS, REAR BRAKE for Air Brakes		
4LGR	BRAKE ATTACHMENT Stainless Steel Slack Adjuster Pins/Cotter Pins on Front and Rear		
4SPA	AIR COMPRESSOR {Cummins} 18.7 CFM		
4EBD	AIR DRYER {Wabco System Saver 1200} with Heater		
4VKC	AIR DRYER LOCATION Mounted Inside Left Rail, Back of Cab		
4VGN	AIR TANK Painted Aluminum, with Straight Thread O-ring Ports		
4WZJ	AIR TANK LOCATION (2): One Mounted under Each Frame Rail, Front of Rear Suspension, parallel to Rail		
4WWZ	DRAIN VALVE (3) with Pull Chains for Air Tanks		
STEERING			
5PTB	STEERING GEAR (2) {Sheppard M100/M80} Dual Power		
5710	STEERING COLUMN Tilting and Telescoping		
5CAW	STEERING WHEEL 4-Spoke; 18" Dia., Black		
DRIVELINES			
6DGC	DRIVELINE SYSTEM {Dana Spicer} SPL170, for 4x2/6x2		
EXHAUST SYSTEMS			
7BKS	EXHAUST SYSTEM Single, Horizontal After treatment Device, Frame Mounted Right Side		
	Under Cab, for Single Vertical Tail Pipe, Frame Mounted Right Side Back of Cab		
7BES	AFTERTREATMENT COVER Polished Aluminum		
7SDP	ENGINE COMPRESSION BRAKE {Jacobs} for Cummins ISL/L9 Engines; with Selector		
	Switch and On/Off Switch		
7WCM	EXHAUST HEIGHT 8' 10"		
7WBS	MUFFLER/TAIL PIPE GUARD (1) Bright Stainless Steel		
7WZX	SWITCH, FOR EXHAUST 3 Position, Momentary, Lighted Momentary, ON/CANCEL,		
	Center Stable, INHIBIT REGEN, Mounted in IP Inhibits Diesel Particulate Filter		

Regeneration When Switch is moved to ON While Engine is Running, Resets When

7WBA TAIL PIPE (1) Turnback Type, Bright

Ignition is Turned OFF

ELECTRICAL SYSTEMS

8000 ELECTRICAL SYSTEM 12-Volt, Standard Equipment

Includes

DATA LINK CONNECTOR for Vehicle Programming and Diagnostics in Cab

HAZARD SWITCH Push On/Push Off, Located on Instrument Panel to Right of Steering Wheel

HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever

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

8WXD ALARM, PARKING BRAKE Electric Horn Sounds in Repetitive Manner When Vehicle Park

Brake is "NOT" Set, with Ignition "OFF" and any Door Opened

8GXK ALTERNATOR {Leece-Neville BLP4006HN} Brushless, 12 Volt 325 Amp. Capacity,

Pad Mount, with Remote Sense

8THB BACK-UP ALARM Electric, 102 dBA

8XDU BATTERY BOX Steel, with Aluminum Cover, 14" Wide, 2-3 Battery Capacity,

Mounted Left Side under Cab

8XHV BATTERY DISCONNECT SWITCH for Cab Power Disconnect Switch, Disconnects

Power to Power Distribution Center (PDC) and Body Builder through Solenoid, Does

Not Disconnect Charging Circuits, Locks with Padlock, Cab Mounted

8MSG BATTERY SYSTEM {Fleetrite} Maintenance-Free, (3) 12-Volt 1980CCA Total, Top

Threaded Stud

8HAB BODY BUILDER WIRING Back of Day Cab at Left Frame or Under Sleeper, Extended

or

Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/

Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn

8XAH CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III with Trip Indicators,

Replaces All Fuses

8WPH CLEARANCE/MARKER LIGHTS (5) {Truck Lite} Amber LED Lights, Flush Mounted

on Cab or Sunshade

8WRB HEADLIGHTS ON W/WIPERS Headlights Will Automatically Turn on if Windshield

Wipers are turned on

IH Code]	Descrip	tion

ELECTRICAL SYSTEMS CONT.

8WHE HORN, AIR ACCOMMODATION PACKAGE; Less Horn

8VAY HORN, ELECTRIC Disc Style

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

8WWJ INDICATOR, LOW COOLANT LEVEL with Audible Alarm

POWER SOURCE Cigar Type Receptacle without Plug and Cord

8RPS RADIO AM/FM/WB/Clock/Auxiliary Input, Bluetooth

8RMZ SPEAKERS (2) 6.5" Dual Cone Mounted in Both Doors, (2) 5.25" Dual Cone Mounted in

Both B-Pillars

8WTL STARTING MOTOR {Delco Remy 39MT} 12 Volt, Gear Reduced, with Thermal Over

Crank Protection

8VTV STOP-LIGHT WIRING MODIFIED Stop-Lights Turned on When Engine Compression

Brake, Exhaust Brake or Retarder is activated.

8XKM SWITCH, AIR HORN, PASSENGER Fire Truck Application; Momentary Switch

Located in Instrument Panel Close to Passenger, Driver Also To Activate Switch with

Lanyard

8WPZ TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except

Backup Lights

8XGT TURN SIGNALS, FRONT Includes LED Side Turn Lights Mounted on Fender

8WGL WINDSHIELD WIPER SPD CONTROL Force Wipers to Slowest Intermittent Speed

When Park Brake Set and Wipers Left on for a Predetermined Time

FRONT END

9WBC FRONT END Tilting, Fiberglass, with Three Piece Construction, for WorkStar/HV

9HBM GRILLE Stationary, Chrome

9WBT GRILLE EMBER SCREEN Mounted to Grille and Cowl Tray to Keep Hot Embers out

of Engine and HVAC Air Intake System

9HBN INSULATION, SPLASH PANELS for Sound Abatement

9AAC LOGOS EXTERIOR Model Badges, Shipped Loose, Located in Cab

9AAH LOGOS EXTERIOR, ENGINE Badge Shipped Loose

SPEEDOMETER, TOOLS, MISC

IH Code	Description	
10WWP	MUD FLAPS, FRONT WHEELS (2) Rubber, Mounted on Fender Extension, for Tire Size 425/445	
10636	PAINT IDENTITY, PT-2 Single Color, Instruction No. 936. Frame/Running Gear, Less Fuel Tanks Includes: NOTE: Battery Box, Air Tanks, Fuel Tanks, Steps and Straps NOT Painted	
10209	PAINT SCHEMATIC, PT-1 Two Tone, Design 209.	
10761	PAINT TYPE Base Coat/Clear Coat, 1-2 Tone	
10SLV	PROMOTIONAL PACKAGE Government Silver Package	
10771	PAINT CLASS Single Custom Color	
FUEL TANKS		
15SXK	FUEL TANK Top Draw, Polished Aluminum, 24" Dia, 50 US Gal (189L), Mounted Left Side, Under Cab	
15WCN	DEF TANK 5 US Gal (19L) Capacity, Frame Mounted Outside Left Rail, Under Cab	
15WCS	FUEL COOLER Less Thermostat; Mounted in Front of Cooling Module	
15924	FUEL TANK STRAPS Bright Finish Stainless Steel	
15LMR	FUEL/WATER SEPARATOR {Racor 400 Series,} with Primer Pump, Includes Water-in Fuel Sensor	
15LPE	LOCATION FUEL/WATER SEPARATOR: Mounted Inboard of 5 Gallon DEF Tank, Under Cab	
WHEELS, TIRES -	FRONT	
27DUS	WHEELS, FRONT {Accuride 41730} DISC; 22.5x9.00 Rims, Extra Polish Aluminum, 10Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	
7792545438	(2) TIRE, FRONT 315/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev / mile, 68 MPH, All-Position	
WHEELS, TIRES - REAR		
28DUS	WHEELS, REAR {Accuride 41730} DUAL DISC; 22.5x9.00 Rims, Extra Polish Aluminum, 10-Stud, 285.75mm BC, Hub-Piloted, Flanged Nut, with Steel Hubs	
7792545438	(4) TIRE, REAR 315/80R22.5 Load Range L HSC 3 (CONTINENTAL), 481 rev/mile, 68 MPH, All-Position.	

CAB SCHEMATIC

Cab schematic 21HWL Location 1:, White

Location 2: 4026, Yellow Chassis schematic 936WL Frame: 4026, Yellow

SERVICES SECTION:

WARRANTY

40128 WARRANTY Standard for HV507, HV50B, HV607 Models, Effective with Vehicles

Built July 1, 2017 or Later, CTS-2025A

40TMS SRV CONTRACT, EXT CMMS ENGINE {Cummins} To 60-Month/100,000 Miles

(160,000 km), Extended Cummins L9 Engine Coverage, Protection Plan 1

Grover Air Horns installed on either side of hood prior to delivery. Activation of air horns

for both the Driver and Officer Position is a Foot Switch.