

SPECIFICATION, JEA CLASS 131: 18' WALK IN VAN (JEA ELECTRIC)

UPDATED JULY 2020

1. SCOPE

It is the intent of the JEA to purchase multiple 18' WALK-IN VANS. All units must be tested and delivered to JEA Fleet Facility (5717 New Kings Road Jacksonville, Florida 32209) in complete operational condition, with all required equipment and documentation by the date specified per awarded contract.

2. MODEL

New, current model year production 18' WALK IN VAN (Freightliner MT-55 or Equal) with 12.5K ONAN GENERATOR and FENIX MANHOLE A/C AIR DELIVERY SYSTEM. Reference: JEA Unit # 50503 for Layout/Design Details and clarification.

UTILIZE THE STRONGEST, MOST ROBUST, MAINTENANCE FREE FASTENERS/CONNECTIONS WHERE APPLICABLE TO MINIMIZE MAINTENANCE REQUIREMENTS AND MITIGATE POTENTIAL FAILURES. CONFIRM ALL FASTENERS/CONNECTIONS ARE RATED FOR THE CAPACITIES PER OUR APPLICATION.



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3. CHASSIS (DIMENSIONS INCLUDE VAN BODY)

- 3.1 Class-7 Single Axle Van Chassis (29,000 LB GVWR)
- 3.2 Wheel Base: 190"
- 3.3 Overall Height from Level Ground to Highest Point on Vehicle Not to Exceed 138"
- 3.4 Interior Height: 85"
- 3.5 Overall Length: Not to Exceed 338"
- 3.6 Width: 93.5"
- 3.7 Max Speed: 70 MPH

4. ENGINE (DIESEL)

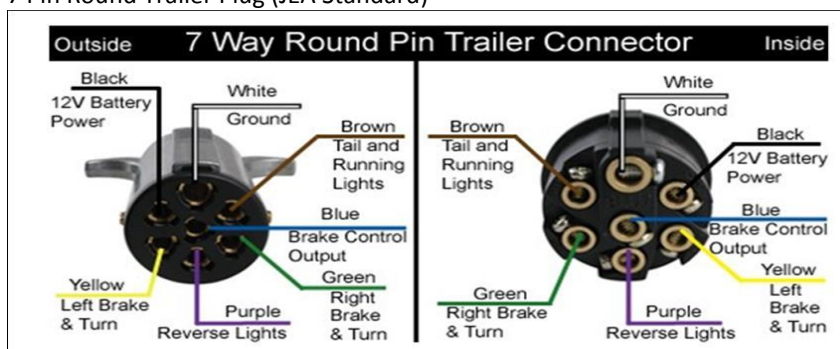
- 4.1 Horse Power: Minimum 260 HP
- 4.2 Torque Range: Minimum 650 lbs
- 4.3 No Automatic Idle Shutdown
- 4.4 Block Heater
- 4.5 Engine warning and shut down system
- 4.6 B20 Biodiesel Capable, if available

5. TRANSMISSION

- 5.1 Allison RDS 2500
- 5.2 PTO Provision

6. TOWING

- 6.1 Class-3 Towing Package
- 6.2 7 Pin Round Trailer Plug (JEA Standard)



- 6.3 Minimum max loaded trailer weight (Conventional): 5,000 lbs

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6.4 Electric brake controller

7. REAR AXLE & TIRES (AIR RIDE)

7.1 Air Ride / 19,000 lbs with manual dump valve

7.2 Locking Differential

7.3 Rear: 22.5 Low Profile to accommodate GVWR, All Season Tread

8. FRONT AXLE & TIRES (RATED FOR GVWR)

8.1 10,000 lbs with Oil Bathed Bearing/Hubs

8.2 22.5 Low Profile to accommodate GVWR, All Season Tread

9. BRAKES (AIR DISC BRAKES)

9.1 Air Disc Brakes with shields

9.2 Anti-lock braking system

9.3 Automatic drain valves

9.4 Air Dryer

9.5 Low Air Pressure Warning System

10. COOLING SYSTEM

10.1 Heavy duty extra cooling capacity, largest available from manufacturer

11. FUEL TANK AND DEF TANK

11.1 Capacity: Minimum 60 gallons useable fuel capacity with Auxiliary Fuel Port

11.2 Minimum 10 gallons diesel exhaust fluid capacity

12. ELECTRICAL AND LIGHTING (NO SCOTCH LOCK CONNECTIONS)

NOTE: WIRE ALL LED STROBE LIGHTS TO ONE OEM UP-FITTER SWITCH IN CAB with Label. WIRE ALL BIN LIGHTS TO ONE OEM UP-FITTER SWITCH. WIRE ALL AREA LIGHTS TO ONE UP-FITTER SWITCH. ALL LIGHTING, LED.

12.1 Meters: Engine hour meter, PTO hour meter, transmission temperature, engine oil pressure, engine temperature, charging system, fuel level, air pressure and diesel exhaust fluid level (In Cab / Dash Mounted).

12.2 OEM Up-Fitter Switches/Upper Console: For wiring strobe lights, area lights & etc.

12.3 Auxiliary Accessory Fuse Block: Purpose is to wire GPS, fuel rings, JEA Radio, DC accessory power outlets etc. Wire to waterproof resettable breaker so we can isolate from the vehicle OEM system if needed. An acceptable example is listed below including picture.

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Blue Sea Systems ST Blade ATO/ATC Fuse Blocks
Style Name: 12-Circ Split w/Cover & Neg



- 12.4 Master Switch With Lockout/Tagout: In Cab, (Mitigate Dead Batteries Due To GPS & Etc.) Example: TR Series Dual Pole Master Disconnect Switch (500A • DPST • IP67/IP69k • Integrated Lockout Tagout).



- 12.5 All Cab / Chassis Lights: LED only
- 12.6 LED Strobe Lights (8 COUNT): Corner Mounted 4 Upper and 4 Lower
- 12.7 Auxiliary Battery Jump Ports: Insulated remote posts protected and mounted passenger's side, under hood and accessible



- 12.8 DC Accessory Power Outlets (12 Count): 6 DC Power Outlets in cab for accessories with spring loaded cover (For Cell Phone Chargers & Etc.). 3 over RH workbench and 3 over LH workbench. See example below (NAPA Part Number & Picture): NAPA Part # BK 7821773 or equal. Power/Wire to the Auxiliary / Accessory Fuse Block



- 12.9 Power Package: Power Windows and Locks (Required, If Available)
- 12.10 Power Package: Mirrors (Power, Extendable & Heated), Cruise Control, Tilt Wheel and Intermittent Windshield Wipers
- 12.11 Factory installed air conditioner and heater

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- 12.12 Collision mitigation/warning system with active braking (engage service brakes), lane departure warning system (required, if available), back up sensors and backup alarm. System must not affect the safety or operation of the vehicle while staging or operating attachments.
- 12.13 AM / FM / Weather Band Stereo with auxiliary input, backup camera (7" or 8" color monitor), and Bluetooth/Hands Free
- 12.14 LED Area Lights: under driver & passenger steps and under rear bumper
- 12.15 LED Lighting in all Utility Bins and Drawers
- 12.16 50 AMP 120V/240V Service Panel with Shore Power and Transfer Switch. Mount RH Sidewall Above Workbench. Mount Shore Power Plug Right Rear/Outside Lower Corner of Van Body.
- 12.17 120V 15 AMP Dual Exterior Weatherproof Outlets (2 Count): RH front fender and RH rear corner
- 12.18 120V 15 AMP Dual Interior Weatherproof Outlets (4 Count): LH front work bench, LH false wall above high pot storage, RH bench left side and RH bench right side
- 12.19 Converter/Charger (45A, 120V TO 12V): Mount RH near service panel
- 12.20 Auxiliary Battery Compartment (2 Battery Capacity): Include 2 12V Batteries
- 12.21 Whelen 12V Micro Pioneers Rear Ped: 2 Count
- 12.22 Whelen PCPSM2C Scene Light: 1 Count

13. ADDITIONAL REQUIRED EQUIPMENT

- 13.1 Front bumper
- 13.2 Air Ride Driver's Seat and Air Ride Passengers Seat with Collapsible Armrest and Head Rest
- 13.3 Seat Belts: Fluorescent Green



- 13.4 Tow/Recovery Hooks: Front & Rear
- 13.5 Window Tint: driver, passenger & rear windows (Max Legal in FL)
- 13.6 Cup Holders: Minimum 2

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- 13.7 Two Collapsible Cone Holders (JEA Standard): Mounted Center / Front Bumper



- 13.8 Fuel Fill Door and Closer

- 13.9 DEF Tank Fill Door and Closer

14. VAN BODY AND ATTACHMENTS (REFERENCE JEA Unit # 50503)

- 14.1 Insulate Driver/Passenger Cabin (Include Cab Floor Matting) and Cargo Area Including Roof
- 14.2 Sun Visors: Adjustable LH and RH
- 14.3 Work Tables/Trays: Engine Cover and RH, Dash Height
- 14.4 Interior / Forward / Roof Mounted Console with storage compartments
- 14.5 14" Fantastic Fan (Powered): 1 Count, Roof Mounted
- 14.6 4" Lowered Stepwells, LH and RH
- 14.7 Rear Bumper: 12" Grip Strut with 24" Wide X 12" Deep Fold Down Step
- 14.8 Shelving and Work Benches: EZ STAK or Equal (Reference Drawings and Current In-Service JEA Unit # 50503)
- 14.9 JEA standard 5 gallon aluminum water keg holder (full circle aluminum). Include Igloo 5 Gallon Water Keg. Mount RH Interior Door. NOTE: Make sure door will shut and not hit the workbench.
- 14.10 Slider Lockable Doors with Slider Windows, LH and RH
- 14.11 4" Lowered Stepwells, LH and RH
- 14.12 Full Swing Rear Doors with 12" X 18" Fixed Windows: Lockable with 4 Hinges, Each Door. Include Hold Back with Release.
- 14.13 Aluminum Hand Wash Tank with ball valve: Mounted LH Rear Door
- 14.14 Onan Generator (Diesel): 12.5K. Mounted/Installed LH in Lockable Compartment on Slide Out. Fuel supplied from chassis fuel tank.
- 14.15 Fenix Manhole A/C Air Delivery System: Mounted RH Rear, Inside
- 14.16 Inverter: 2000W Industrial/Commercial with 12V Power Strip
- 14.17 Cab Dome Light: 18" LED centered in cab with Lighted Switch
- 14.18 Cargo Area Interior Dome Lights: 4 Count. 18" LED Roof Mounted / Centered in Cargo Area with Lighted Switch

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- 14.19 Work Bench LED Lights (2 Count): 1 above both Work Benches
- 14.20 Center Isle: Non-Skid
- 14.21 Side & Rear Walls: Heavy Duty and Insulated to match referenced JEA Unit with Fresh Air Vents, LH and RH
- 14.22 Grab Handles (Safety): Match referenced JEA Unit
- 14.23 Shovel Storage System
- 14.24 Manhole Barrier Holder
- 14.25 Ladder Bin with Door (7")
- 14.26 5" Vise
- 14.27 Under Floor Compartment: 30" X 22" X 20"
- 14.28 False Wall / Storage Compartments LH: Accessible when LH Rear Door is open



- 14.29 LH Rear Inside Cabinet: Make 4" shorter and mount as high as possible to make room for redesigned HIGHPOT Machine.



Make 4" Shorter

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15. COLOR / GRAPHICS

- 15.1 White exterior
- 15.2 Delete all vendor and manufacturer identification decals except required safety & reference identification tags, decals, data plates & placards
- 15.3 Install Vehicle Height Warning Placard with maximum height (feet/inches) in cab on the dash (driver's view) and on driver's side door (outside of vehicle, close to door handle)
- 15.4 Install decal on rear bumper near hitch to include the MAX tow capacity and MAX tongue weight

16. MANUALS, VIDEOS, KEYS & OPERATOR ORIENTATION

- 16.1 (1) set of operator manuals per unit (HARD COPY). (1) Electronic Copy maintenance, repair & parts manuals
- 16.2 Provide five (5) complete sets of keys per unit (3 FOB Keys and 2 Standard Keys for Chassis) including attachments, bins and tool boxes. Key all bins and tool boxes alike. Stamp/Engrave JEA provided 5 digit unit number on all keys.
- 16.3 (1) On-Site JEA Operator Orientation Class (Complete Unit Overview: Chassis & Attachments)
- 16.4 (1) On-Site JEA Maintenance Orientation Class (Complete Unit: Chassis & Attachments)
- 16.5 Include a paper copy Specification / Build Sheet / Drawings in all units including Key Codes

17. DRAWINGS

- 17.1 Scaled Drawings will be provided to JEA upon receipt of order. Drawings will include all interior/exterior and equipment layout details & dimensions. Final Drawings / Layout will be approved by JEA before work is started. Include one electronic copy (Flash Drive). Drawings maybe used at JEA's discretion for solicitations, request for information, reference for repairs, etc.
- 17.2 Provide weight study

18. WARRANTY


- 18.1 Minimum (2) One Year warranty on Chassis & All Attachments (Include Parts, Travel & Labor). Must include all standard manufacturer warranties.
- 18.2 Warranty period starts when units are received at JEA's fleet facility and are inspected and accepted.

19. OTHER REQUIREMENTS

- 19.1 Purchase and Install Yellow City License Plates
- 19.2 Install JEA provided decals (You may use JEA's current vendor at your expense)
- 19.3 Install JEA provided safety equipment: Purple-K fire extinguisher (5 LB), first aid kit and key safe
- 19.4 Current DOT Inspection / Certification with decal installed lower left inside corner of windshield. Include current date, current hours, next service due date and next service due hours.
- 19.5 Include a paper copy specification / build sheet in all units including key codes

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- 19.6 Must include/document the VIN number, make, model, description, JEA PO # and JEA provided 5 digit unit # on all invoices
- 19.7 Awarded vendor must complete and submit the JEA provided Vehicle and Equipment Attribute Data Spreadsheet
- 19.8 Reflective roadside triangle warning/hazard kit 

NOTE: All units, attachments, products and services must meet and comply with all applicable regulations and specifications including but not limited to Federal and State Laws, OSHA Regulations, ANSI Standards, DOT Regulations and ASTM Standards. All units must be delivered to the JEA Fleet Facility with a minimum $\frac{3}{4}$ tank of fuel. Contact Thurman McGlothlin at 904-576-9382 48 hours prior to delivery. Delivery times are Monday through Friday 07:00 AM – 03:00 PM at 5717 New Kings Road Jacksonville Florida, 32209.