

SPECIFICATION, JEA CLASS 223: TRUCK 3 T EXT CAB DIGGER DERRICK 50'
UPDATED SEPTEMBER 2020

1. SCOPE

It is the intent of the JEA to purchase multiple 3 Ton 4X2 EXTENDED CAB DIGGER DERRICK TRUCKS. All units must be tested and delivered to the 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 Class-8 Cab/Chassis (Require INTERNATIONAL cab/chassis due to lower cab height) with attached 50' Sheave Height DERRICK with 18" Auger (ALTEC DH50, TEREX COMMANDER 5050 or Equal). Reference: JEA Unit # 51153 for Layout and Dimensions.

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. CAB / CHASSIS (CLASS-8). REQUIRE INTERNATIONAL EXTENDED CAB/CHASSIS DUE TO LOWER CAB HEIGHT

- 3.1 Class-8 Single Axle Cab/Chassis (37,000 LB GVWR)
- 3.2 Cab to Axle: Not to exceed 136"
- 3.3 Wheel Base: Not to exceed 220"
- 3.4 Overall Height: From level ground to highest point on vehicle not to exceed 156"
 - Minimize the overall height as much as possible without negatively affecting functionality and safety
- 3.5 Overall Length: Not to exceed 385"
- 3.6 Overall Width: Not to exceed 102"
- 3.7 Max Speed: 70 MPH

4. ENGINE (REQUIRE CUMMINS ISL9 DUE TO RELIABILITY / DURABILITY)

- 4.1 Horse Power: Between 320 HP and 350 HP
- 4.2 Torque: Between 750 lbs to 1000 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
- 4.7 Idle Up / Remote Throttle Option

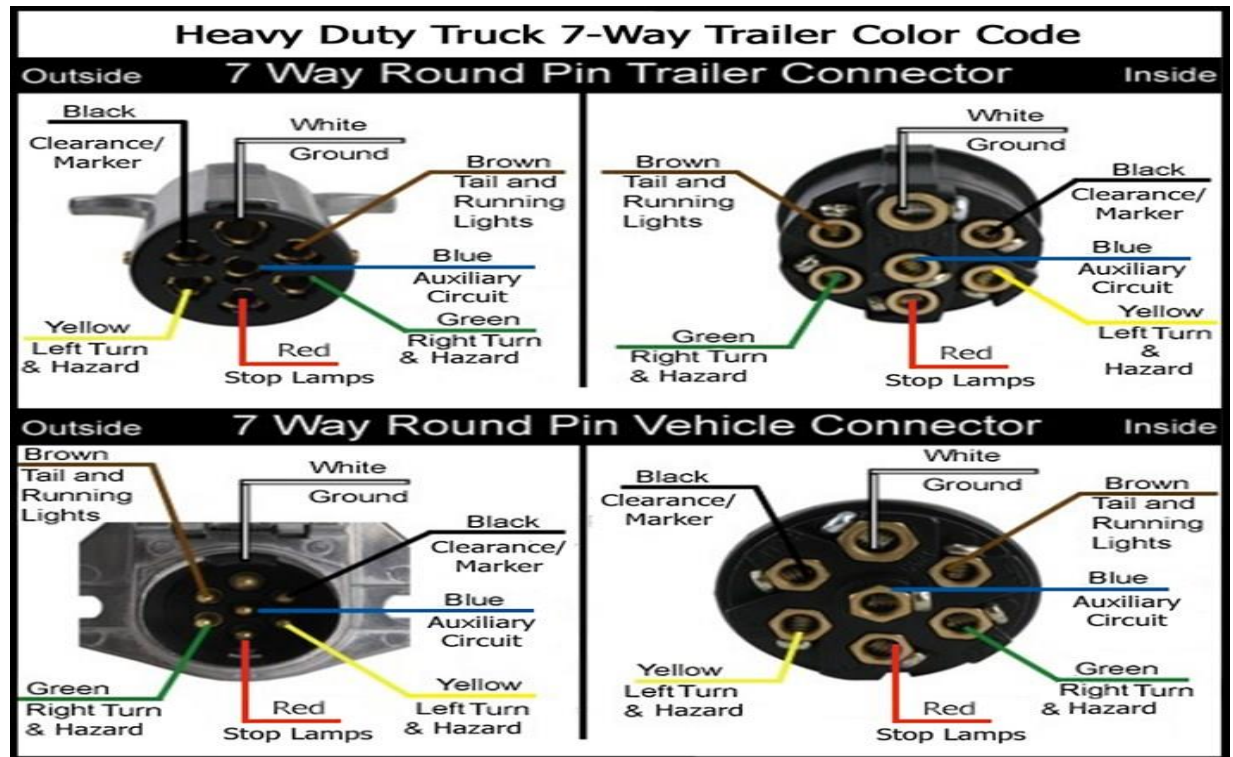
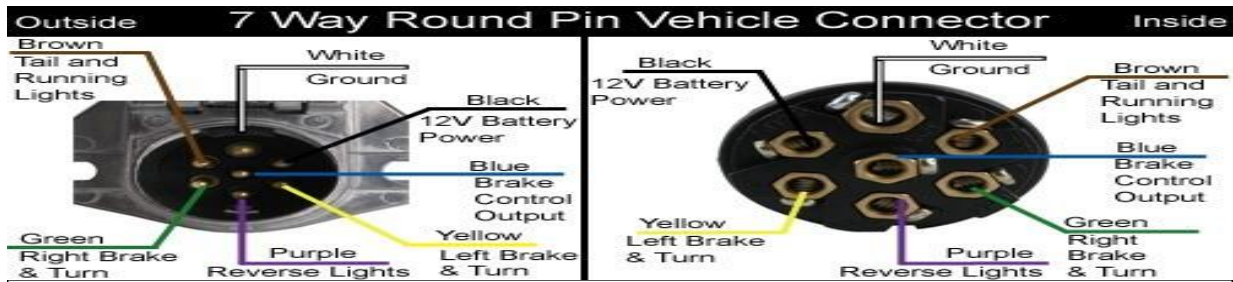
5. TRANSMISSION

- 5.1 Allison RDS 3500
- 5.2 PTO Provision

6. TOWING

- 6.1 Tow Package / Pintle Hook: Heavy Duty 25 Ton Swivel Off Road and Safety Chain D-Rings. D-Rings even with hitch.
- 6.2 Tractor Protection Valve along with all air lines/plumbing, collapsible glad hands and trailer hand valve
- 6.3 Tow Package trailer receptacles (2 Receptacles): 7 Pin Round Trailer Receptacle and 7 Pin Round Heavy Duty Truck Trailer Receptacle (ABS)

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7. REAR AXLE & TIRES (AIR RIDE)

- 7.1 Air Ride / 23,000 lbs with manual dump valve (Requiring Hendrickson Air Ride Suspension Systems rated for the capacity and application)
- 7.2 Side-to-Side Differential Lock
- 7.3 Rear: 12R 22.5 to accommodate GVWR, All Terrain Tread
- 7.4 Aluminum Rims: Weight reduction

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8. FRONT AXLE & TIRES (RATED FOR GVWR)

- 8.1 14,600 lbs with Oil Bathed Bearing/Hubs
- 8.2 Front: 12R 22.5 to accommodate GVWR, All Terrain Tread
- 8.3 Aluminum Rims: Weight reduction

9. BRAKES (AIR DISC BRAKES)

- 9.1 Air Disc Brakes with shields: front and rear axles
- 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 80 gallons useable fuel capacity
- 11.2 Capacity: Minimum 10 gallon diesel exhaust fluid capacity

12. CHASSIS 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.

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

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- 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 (6 COUNT): 4 Corner Mounted LED Strobe Slights & 2 Recessed Amber LED Strobe Lights (3" or 4" Round) mounted outside/center of Utility Body (1 on DS & 1 on PS)
- 12.7 Auxiliary Battery Jump Ports: Insulated remote posts protected and mounted driver's side underneath cab body / behind steps. (Do not mount over fuel tank!)



- 12.8 DC Accessory Power Outlet: One additional DC power outlets in cab for accessories with spring loaded cover. See example below: NAPA Part # BK 7821773 or equal. Wire to the Auxiliary Accessory Fuse BLOCK.



- 12.9 LED Post Mounted Spot Light, Drivers Side

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- 12.10 (2) LED GO-LIGHTS / Remote Controlled: 1 mounted RF Overhead Guard & 1 mounted RR Overhead Guard
- 12.11 Power Package: Power Windows, Locks, Mirrors (Heated), Cruise Control & Tilt Wheel
- 12.12 Factory installed air conditioner and heater
- 12.13 Collision mitigation/warning system with active braking (engage service brakes), lane departure warning system, back up sensors and backup alarm. System must not affect the safety or operation of the vehicle while staging or operating attachments.
- 12.14 OEM AM / FM Stereo with auxiliary input, backup camera (7" or 8" color monitor), and Bluetooth hands free
- 12.15 2400 Power Watt Inverter (Pure Sine Wave Inverter or Equivalent): Ignition key hot. Mounted inside PS / Right front utility bin. Add a weatherproof GFI 120V Dual Power Outlet mounted to right rear of utility body.
- 12.16 LED Ground Lighting / Area Lights (Drivers Side, Passengers Side & Rear of Vehicle)

13. ADDITIONAL REQUIRED EQUIPMENT

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



- 13.3 Tow/Recovery Hooks: Front & Rear
- 13.4 (2) Two Fender/Hood Mounted Mirrors (Passenger & Drivers Side for Blind Spots)
- 13.5 Window Tint: Driver, Passenger & Rear Windows (Max Legal in FL)
- 13.6 Cup Holders: Minimum 2
- 13.7 Interior / Forward / Roof Mounted Console with Storage Compartments
- 13.8 Doc Bumpers: Fixed Mounted to Rear Frame Rails
- 13.9 Slope Indicator Assembly
- 13.10 Lanyard & Lanyard Storage Pouch
- 13.11 Operator Manual Storage Pouch: Mounted in Cab
- 13.12 Extended Cab Rear Seat: Full Width Bench Seat with Storage

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14. BOOM ATTACHMENT WITH 18" AUGER BIT (ALTEC DH50, TEREX COMMANDER 5050 OR EQUAL). NO UPPER CONTROLS

- 14.1 Boom Sheave Height: Between 50' and 52'
- 14.2 Maximum Lifting Capacity (Rear Mounted Winch): Between 29,500 lbs and 32,000 lbs
- 14.3 Lifting Capacity at 10' Radius: Between 15,000 lbs and 16,000 lbs
- 14.4 Outriggers (Enclosed to mitigate debris from entering cylinders): Main & Auxiliary, full hydraulic rated for boom capacity with alarms. Outrigger controls must be located at driver's side and passenger side rear of flatbed.
- 14.5 Outrigger Boom Interlock
- 14.6 Hydraulic Oil Cooler
- 14.7 Engine Start/Stop Switch: Located at Full View Platform Console
- 14.8 Hydraulic Pole Puller with Outrigger Mounting Bracket (Mechanical latch, no straps)
- 14.9
- 14.10 Hydraulic Tamp with 3' Hose with Dripless Quick Connects
- 14.11 Two (2) 25' Spring Retractable Hydraulic Hose Reels Mounted RR of Tail Shelf with Dripless Quick Connects
- 14.12 Emergency Stop Button: Located at Passenger Side Front Bumper & Operator Platform Console
- 14.13 Foot Operated Throttle Option: Located at Full View Platform Console. Must Be Featherable
- 14.14 360 Degree Continuous Boom Rotation (Reversible) with no back drive while under pressure. Must Include side load protection, boom stow protection / hydraulic overload protection.
- 14.15 Blue Coated Whip Line / Rope: 1-1/8" X 115'. Gunnebo Johnson Swivel Hook or equal
- 14.16 Hydraulic System
- 14.17 Platform Console: Full View (See Example Below) and must include foot operated throttle, start / stop switch, emergency stop switch, horn & control levers. All controls must be mounted for easy access (ergonomic) & labeled per function (Durable/High Quality Weatherproof Labels).



- 14.18 Slope Indicator Assembly
- 14.19 LED Spotlight: Mounted at operator platform/console

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- 14.20 LED Cargo Light: Mounted to the rear of the boom pedestal above the outriggers
- 14.21 Removable Aluminum Expanded Metal Covers: Mount to the voids in the boom pedestal to mitigate trash and other accumulation

15. UTILITY BODY (REFERENCE JEA UNIT # 51153 TO CONFIRM DIMENSIONS)

- 15.1 Secondary Bin Lock System (Accommodate Pad Locks)
- 15.2 Pole Adapter Bracket and Pole Adapter: Mounted center of tail shelf
- 15.3 4" Recessed Round LED Lights: 2 mounted inside/centered/evenly spaced utility bed on drivers side, 2 mounted inside/centered/evenly spaced on passenger side & 1 mounted inside/centered step well on passenger side. (Adjust location as needed to accommodate for hydraulic tank location & bin locations)
- 15.4 LED Body Compartment Rope Lighting: All utility bins
- 15.5 Bulkhead Mounted Weatherproof Storage Bin: Mounted inside utility bed / front side
- 15.6 LED Flood Lights: Adjustable & mounted to top/boom stow rack facing cargo area (1 on driver's side & 1 on passenger side).
- 15.7 4 Polymer Outrigger Pads with Storage Compartments (compartments mounted under utility body, 2 on driver side & 2 on passenger side)
- 15.8 JEA standard 5 gallon aluminum water keg holder (full circle aluminum). Include Igloo 5 gallon water keg
- 15.9 Red/White Reflective Tape: A shaped/JEA standard (chevron). Located on rear of truck
- 15.10 Nonskid Coating: All steps & walking surfaces
- 15.11 Collapsible Cone Holder (JEA Standard): Mounted front bumper



- 15.12 Integrated Wheel Chock Bins with Wheel Chocks
- 15.13 Pole Protector Basket: 82" long and mounted driver side, top of utility body
- 15.14 Aluminum Hand Wash Tank with ball valve mounted curbside on bulkhead
- 15.15 Gas Shock Door Holders: On all body compartments & bins
- 15.16 Reference JEA Unit # 51153 for bin shelving layout
- 15.17 LED Strobe Lights: mounted to top/boom stow rack (1 on driver side & 1 on passenger side)

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- 15.18 Flush Mounted Spotlights: Mounted each side / rear tail shelf
- 15.19 Sprayed In Bed Liner (LINE X or Equal): Inside bed, inside bed sides & top of utility body. Spray inside floors of all utility bins up to 8" on walls.
- 15.20 Recessed D-Ring / Tie Downs: Located inside / on the sides of the utility bins (3" to 4" from top of utility body). 4 on the driver's side & 2 on the passenger side spaced evenly.
- 15.21 Utility Body Bins & All Other Bins: Paint interior white
- 15.22 Rear Access / Under Deck / Belly Mounted Tamp Bin with cut out for hoses (per example reviewed)
- 15.23 Under Deck / Cross Through / Possum Belly / Full Width Bin (integrated in the tail shelf). Lockable access doors on both sides (per example reviewed)
- 15.24 Toe Board Brackets for 2X4 Tail Shelf (per example reviewed)

16. FRONT BUMPER COMBINATION CAPSTAN & RECOVERY WINCH

- 16.1 Capstan Winch (PD-18 with Capstan or Equal): Passenger side / right side of bumper drive
- 16.2 20" CR Reel & 7" Drum. All aluminum
- 16.3 Capstan Mount: Mounted to front bumper
- 16.4 2 Sets of Hydraulic Featherable Control Valves: Located front bumper & in cab
- 16.5 Recovery Winch: Integrated center/front bumper (JEA standard) with synthetic cable rated for winch capacity.

17. COLOR / GRAPHICS

- 17.1 White exterior
- 17.2 Delete all vendor and manufacturer identification decals except required safety & reference identification tags, decals, data plates & placards
- 17.3 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)
- 17.4 Install decal on hitch plate next to pintle hitch to include the MAX tow capacity and MAX tongue weight

18. MANUALS, VIDEOS, KEYS & OPERATOR ORIENTATION

- 18.1 (1) set of operator manuals per unit (HARD COPY). (1) Electronic copy maintenance, repair & parts manuals
- 18.2 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.
- 18.3 (1) On-Site JEA Operator Orientation Class (complete unit overview: chassis & attachments)
- 18.4 (1) On-Site JEA Maintenance Orientation Class (complete unit: chassis & attachments)
- 18.5 Include a paper copy specification / build sheet / drawings in all units including key codes

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19. DRAWINGS

- 19.1 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 may be used at JEA's discretion for solicitations, request for information, reference for repairs, etc.
- 19.2 Provide weight study

20. WARRANTY

- 20.1 Minimum (2) one year warranty on chassis & all attachments (include parts, travel & labor). Must include all standard manufacturer warranties.
- 20.2 Warranty period starts when units are received at JEA's fleet facility and are inspected and accepted.

21. OTHER REQUIREMENTS

- 21.1 Purchase and Install Yellow City License Plates
- 21.2 Install JEA Provided Decals (you may use JEA's current vendor at your expense)
- 21.3 Install JEA Provided Safety Equipment: Purple-K fire extinguisher (5 LB), first aid kit and key safe
- 21.4 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.
- 21.5 Include a paper copy specification / build sheet in all units including key codes
- 21.6 Must include/document the VIN number, make, model, description, JEA PO # and JEA provided 5 digit unit # on all invoices
- 21.7 Awarded vendor must complete and submit the JEA provided Vehicle and Equipment Attribute Data Spreadsheet
- 21.8 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.