

SPECIFICATION, JEA CLASS 421: TRAILER MOUNTED BULL WHEEL TENSIONER

UPDATED OCTOBER 9, 2018

1. SCOPE

It is the intent of the JEA to purchase One (1) Bull Wheel Tensioner with On-Board Operator Station (TURN KEY / COMPLETE / OPERATIONAL). Purpose: Fiber Optic Cable (CAIFO144, 72, 48 or 24 with .72" OD), Conductor etc. Unit must be built, 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 **JULY 15, 2019**. Liquidated Damages (\$20.00 Per Day) Start JULY 15, 2019.

2. MODEL

2.1 Current Model / Year, Trailer Mounted BULL WHEEL Tensioner with Sound Attenuated Diesel Power Pack. Pictures Below are for general reference:



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UPDATED OCTOBER 9, 2018

3. TENSIONER SPECIFICATIONS

- 3.1 **REEL CAPACITY:** Up to **12,000 LBS.**
- 3.2 **REEL SIZE:** Up To 96" Outside Diameter X 54" Wide.
- 3.3 **Line Tensioning Capacity:** Up to 5000 LBS.
- 3.4 **Line Speed:** Average 4 MPH.
- 3.6 **Hydraulic Reel Retriever:** **Full Hydraulic** Powered by on-board diesel power pack.
- 3.7 **REEL DRUM BRAKE:** 16" Diameter Aluminum/Bronze Disc with **Electric/Hydraulic Caliper.**
- 3.8 **REEL SHAFT DIAMETER:** 2 5/8".

4. BULL WHEELS

- 4.1 **COUNT:** TWO (1Pair).
- 4.2 **DIAMETER:** 54" or 55".
- 4.3 **GROOVE COUNT / RADIUS:** Five Count (1" Radius)
- 4.4 **TENSION BRAKE:** 36" Diameter Bronze Disc, **Electric/Hydraulic Caliper.**

5. DIMENSIONS & WEIGHT

- 5.1 **Overall Width:** Not to exceed 102 Inches.
- 5.2 **Overall Length:** Not to exceed 27" Feet.
- 5.3 **Overall Height:** Not to exceed 11 Feet (Measured with unit leveled on level surface).
- 5.4 **Overall Weight:** Not to exceed **16,500 LBS.**

6. OPERATOR PLATFORM/STATION

- 6.1 **CONSOLE:** Must be ergonomic and contain all controls (Labeled) for the unit including all light switches, master switch, RED Emergency Shut Down Button, all brake controls, hydraulic retriever controls etc.
- 6.2 **SAFETY SCREENS:** Between Operator Station and Bull Wheels, Between Console and Reel Stand and Overhead.
- 6.3 **SEAT:** Swiveling High Back Seat with Collapsible Armrest.
- 6.4 **TINTED TRANSPARENT PLEXIGLAS ROOF COVER:** Mount Over Operator Station.
- 6.5 **CUP HOLDER:** One.

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UPDATED OCTOBER 9, 2018

7. TRAILER (INCLUDING ATTACHED LOCKABLE BINS)

- 7.1 **Tandem Axle / Single Wheel:** Rated for GVWR of Equipment (GVWR includes maximum reel capacity & fuel).
- 7.2 **BRAKES:** ABS Air Brakes.
- 7.3 **WHEEL BEARING SYSTEM:** Oil Bathed / WET BEARINGS.
- 7.4 **TIRES:** 215/75R/17.5 Rated for GVWR.
- 7.5 **GLAD HANDS:** Color Coded with Flexible Air Lines.
- 7.6 Aluminum Weatherproof Lockable Bin with Coffin Lid, 24" LONG X 18" DEEP X 10" WIDE (Storage). Location TBD.
- 7.7 3" Inside Diameter X 60" Long Weatherproof Storage Tube with Lockable Lid (Ground Tool T-Handle). Location TBD.
- 7.8 **OUTRIGGER PAD STORAGE BINS:** THREE Storage Bins mounted close to Outriggers. Must include THREE Polymer Outrigger Pads.
- 7.9 **GROUND REEL:** Mounted close to Trailer Tong.
- 7.10 **LEVELING JACKS, 3 COUNT:** 2 Rear Mounted & 1 Tong Mounted, **Full Hydraulic**.

8. TRAILER COUPLING

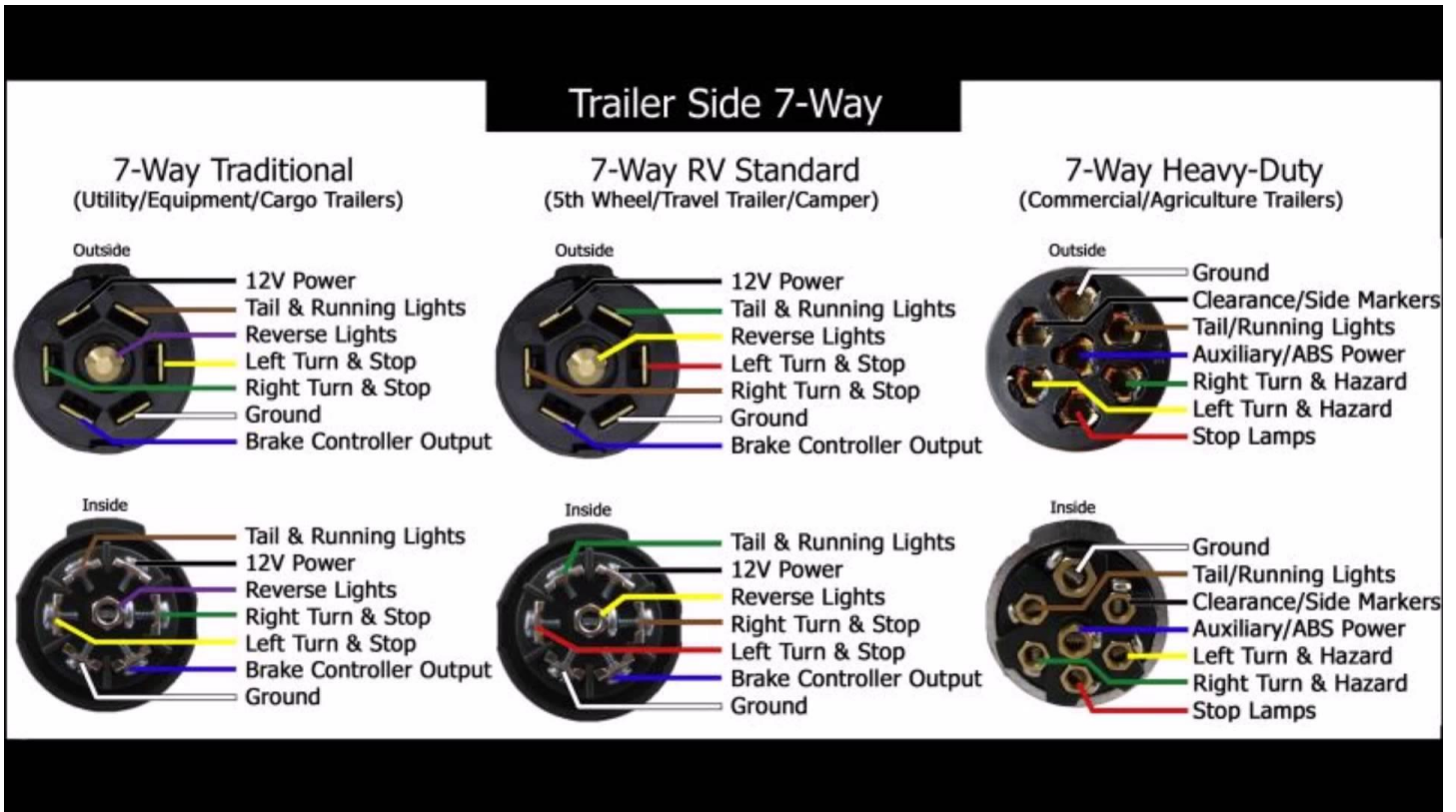
- 8.1 Adjustable Lunette Eye (Rated for Trailer GVWR) from 22 Inch Height to 26 Inch Height to accommodate heavy duty JEA Trucks.
- 8.2 **Safety Chains:** Two heavy duty with safety clips rated for trailer.

9. ELECTRICAL / LIGHTING (DOT, FLDOT & I.C.C. Compliant Light Emitting Diode, LED)

- 9.1 **Operator Console/Platform:** TWO Adjustable LED Lights mounted to the Roof Guard of the Operator Platform and TWO Adjustable LED Lights mounted to the front side of the Operator Platform. Must have a lighted labeled switch mounted in the operator console.
- 9.2 **Area Lights:** LED Area lights mounted under trailer frame on all sides. Must have lighted labeled switch mounted in the operator console.
- 9.3 **Strobe Lights:** LED Low Profile Strobe Lights mounted on right side, left side and rear of trailer (6 Total). Must have lighted labeled switch mounted in the operator console.
- 9.4 All Operator Console Switches must be LED Lighted Switches.
- 9.5 **NO** scotch lock wire connectors.
- 9.6 **7 Pin Round HEAVY DUTY COMMERCIAL Trailer Plug (ABS):** Weatherproof Loomed Wires (JEA Standard). Must include an **Electrical Junction Box** mounted to the Tong of the Trailer. All Trailer Plug Wiring must connect through the Junction Box.

SPECIFICATION, JEA CLASS 421: TRAILER MOUNTED BULL WHEEL TENSIONER

UPDATED OCTOBER 9, 2018



- 9.7 2 DC Accessory Plugs with Spring Loaded Lids (NAPA Part # BK 7821773) or Equal. Mounted In Operator Console.



- 9.8 **Battery Tender:** Mounted in a Weatherproof Bin (Hard Wired/Hard Mounted).

- 9.9 **LED GO LIGHT:** Remote Controlled with Suction Cup Mount.

10. FENDERS & DECK SURFACE

- 10.1 Minimum 1/8" tread plate formed steel (No Wood or Plastic).
- 10.2 All walking surfaces & steps must be nonskid or coated with nonskid material.

11. SOUND ATTENUATED DIESEL POWER PACK (INCLUDES HYDRAULIC PUMP, PLUMBING ETC)

- 11.1 Diesel engine with 12 Volt electrical system, electric start & lockable sound attenuated canopy (69 dba at 30 feet).
- 11.2 Must include; amp gauge, hour meter, oil pressure gauge with low pressure warning light, temp gauge, fuel gauge & hydraulic reservoir site glass / level indicator.

SPECIFICATION, JEA CLASS 421: TRAILER MOUNTED BULL WHEEL TENSIONER

UPDATED OCTOBER 9, 2018

- 11.3 Fuel tank capacity sized for minimum 4 hours continuous run time.
- 11.4 12 volt battery mounted in a lockable, vented weatherproof compartment.
- 11.5 Must include an emergency shut off switch (Push Button Type with Red Button) located & marked in clear view.
- 11.6 **Horse Power & Torque Rated for Required Capacity:** Console, Jacks, Reel Retriever Etc.
 - a) Must actuate all Full Hydraulic Jacks, Full Hydraulic Reel Retriever Etc.
 - b) Must Power Operator Platform, Console Lighting, Controls Etc.

12. COLOR / GRAPHICS

- 12.1 White throughout.
- 12.2 Delete all vendor and manufacturers identification decals.
- 12.3 Must include all warning placards/data plates/decals (moving parts, pinch points etc.).

13. PAINT / POWDER COAT

- 13.1 Industrial / Commercial grade, white powder coat throughout.

14. EQUIPMENT DATA PLATE (Aluminum DOT Compliant I.D. Plate)

- 14.1 Must include model number, serial number, GVWR, dry / empty weight, tire size, manufacturer's name, address & contact number.
- 14.2 Attached / riveted to the outside driver's side tongue of trailer.
- 14.3 Serial number must be stamped / etched in the trailer tongue & in the puller frame (Drivers Side / Outside).

15. WARRANTY & Replacement Parts Availability

- 15.1 **Two Year Warranty:** Parts & labor (Includes Travel). Must include all standard manufacturer warranties.
- 15.2 **Replacement Parts:** filters etc. must be readily available within 72 hours. **Examples:** Air filters, fuel filters, hydraulic filters, replacement bearings, brake pads etc.

16. MANUALS/CHARTS (Operator, Parts & Repair) & KEYS

- 16.1 Two complete sets of Operator Manuals (Hard Copy). Laminate/Weather Proof all Pages in all Manuals.
- 16.2 Weather Proof Operator Manual Storage Pouch mounted to rear of Operator Seat or on Operator Console.
- 16.3 One Electronic Copy Parts and Repair Manuals (Flash Drive Acceptable).
- 16.4 FIVE (5) complete sets of keys.
- 16.5 **GREASE CHART with FREQUENCIES:** Decal or Laminated Weatherproof Paper Acceptable.

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UPDATED OCTOBER 9, 2018

17. OPERATOR ORIENTATION & MAINTENANCE TRAINING

- 17.1 Two onsite operator orientation / training sessions.
- 17.2 Two onsite maintenance-training sessions (For JEA Fleet Personnel).
- 17.3 OPTIONAL if available: Provide two operator orientation & safety DVDs' (Flash Drive Acceptable).

18. ADDITIONAL REQUIREMENTS

- 18.1 Include a complete paper copy Specification / Build Sheet including Drawings with all units.
- 18.2 Install JEA provided Branding / Decals
- 18.3 Current DOT Inspection / Certification with Decal installed LF Out-Side Tong of Trailer. Decal must include current hours, current Inspection date, next service due hours and next service due date.
- 18.4 Must include/document the **Vin Number, Make, Model, Description, JEA P.O. # and JEA Provided 5 Digit Unit Number** on all Invoices.
- 18.5 **Optional:** Purchase / Install CITY License Plates.
- 18.6 **Weather Proof Registration Canister with Transparent Lid:** Mount to Drivers Side/Front of Trailer (Easily Accessible).



- 18.7 Wheel Chocks with Storage Compartments.

NOTE: All Units, Attachments, Products & Services must meet & 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 **Mark Murray** at **904-328-8501** 48 Hours prior to delivery. Delivery times are **Monday** through **Friday 08:00 AM – 03:00 PM** at **5717 New Kings Road Jacksonville Florida, 32209.**