



RALLY TRAILER
MANUFACTURING

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Operations & Maintenance Manual
Self Loading Reel Trailer - Tandem Axle
(SLRT-28R)



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1.1 Operation and Maintenance Manual

This Operation and Maintenance Manual is designed to guide qualified personnel in the successful operation and maintenance of the Self Loading Reel Trailer - Tandem Axle with payoff wheel. Read and ensure there is a full understanding of this manual before proceeding to operate and maintain any equipment.



WARNING



READ THE RELEVANT EQUIPMENT MANUFACTURER’S MANUAL AND THE OPERATION AND MAINTENANCE MANUAL BEFORE OPERATING OR MAINTAINING THIS PRODUCT. FAILURE TO DO SO CAN RESULT IN SERIOUS INJURY OR DEATH.

All operation and maintenance are to be supervised by qualified personnel according to local and national safety guidelines and best practices. Rally Trailer Manufacturing does not assume responsibility for workmanship or safety of any third-party service.

1.2 Operation and Maintenance Manual
Overview

The following Operations and Maintenance Manual is intended to help qualified maintenance personnel operate and maintain this product. To be an operator of this product, you must have read and understood all sections of this manual and received training on the requirements and responsibilities as outlined. The system shall be maintained in accordance with the instructions and directions in this manual. Deviations from the instructions in this manual will not be authorized without the manufacturer's prior written consent.

GVRW	12,475 lbs
Payload Rating	8,000 lbs
Reel Width	54
Reel Diameter	96"
Trailer Length	14.3'
Trailer Width	102"
Tires	215/75R 17.5

Refer to the following figure for the various features listed throughout this manual:

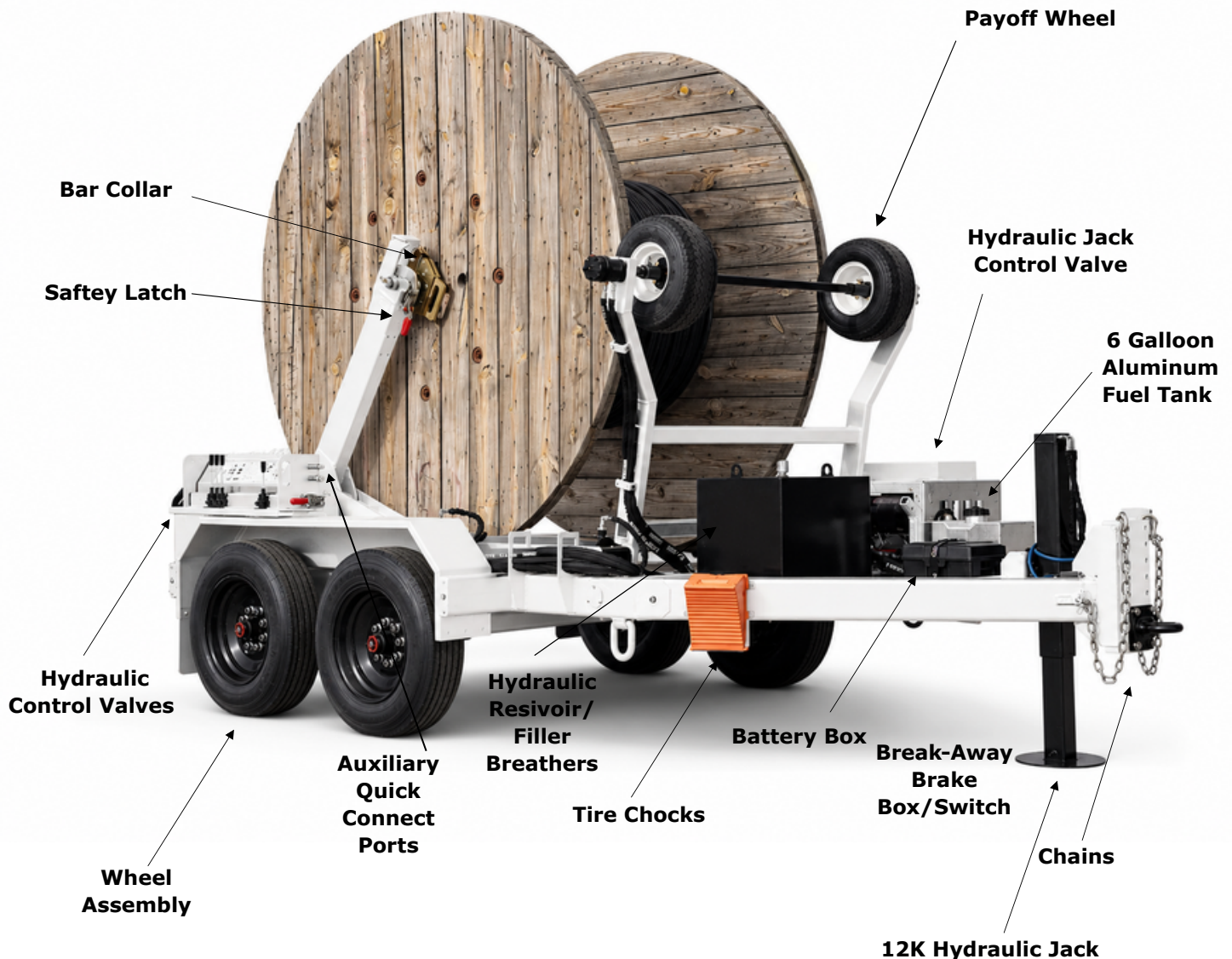


Figure 1: Self Loading Reel Trailer - Tandem Axle with Payoff Wheel Trailer Feature

Refer to the following figure for the various features listed throughout this manual:

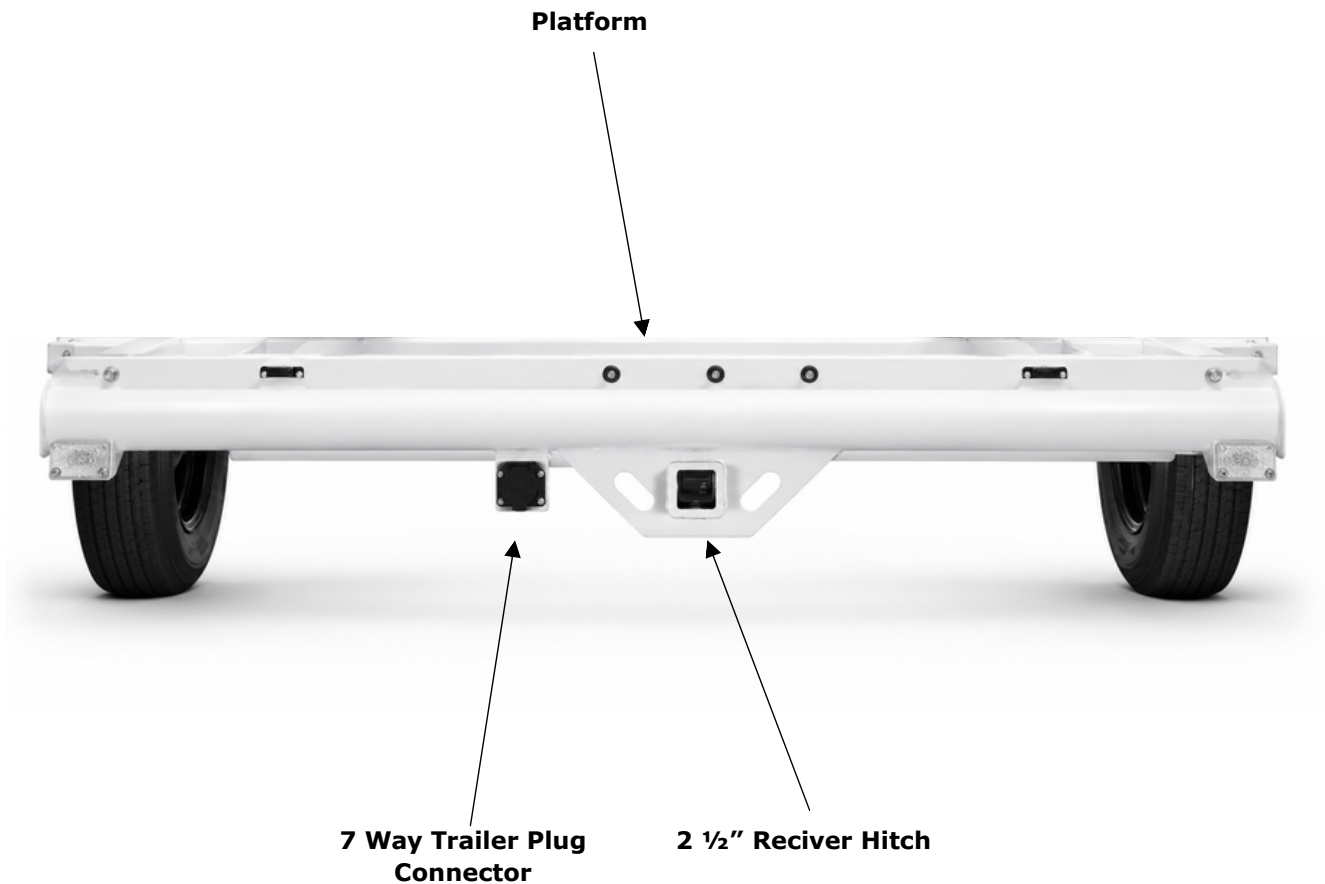


Figure 2: Self Loading Reel Trailer - Tandem Axle with Payoff Wheel Trailer Feature



Figure 3: Self Loading Reel Trailer - Tandem Axle with Payoff Wheel Trailer

2.1 Self-Loading Hydraulic Trailer

The trailer is designed so that a single operator can load a wire/utility reel onto the trailer and lift it to provide clearance and allow the reel to operate. This is accomplished through a hydraulic carriage system.

Basic Option

The basic option includes the hydraulic carriage system, operated by an electric hydraulic power unit with an integrated two-button remote.

Before operating the trailer, the following items need to be checked to ensure safe operation of the trailer.

 WARNING	
	Failure to perform safety checks may result in damage to property, injury to self, or death.

3.1 General Condition

Visually inspect the trailer frame, wheels, chains, Jack, and electrical components for significant damage, excessive wear, and material corrosion (e.g., rust). Ensure the general condition of the trailer is fit for operation.

3.2 Lighting and Electrical

Junction Box and Trailer Connector Plug

Visually verify that the trailer connector plug and the wiring to the junction box are in good condition and that there are no exposed or damaged wires. Visually inspect the junction box for damage.

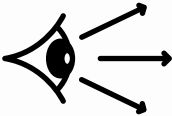
Lighting

Visually inspect that the lights are not damaged. After connecting the trailer connector plug to the vehicle, verify that all lights function correctly for their intended purpose.

Break-Away Brake System

Verify that the break-away brake system is in working condition per the manufacturer's instructions (e.g., the battery is charged and the switch is operational).

3.3 Hydraulic System

 WARNING	
	Visually inspect all hydraulic lines, valves, cylinders, etc. are free of damage and are not leaking. If damage or leaking is found, DO NOT use the trailer until the equipment has been repaired/replaced.

Verify proper operation of the hydraulic power unit, and that all electrical connections and wires are secure and free from damage.

Note: Verify all fluids in the engine are at proper levels before use. If the Auto-Reel option is provided, ensure the gas engine is in working condition per the manufacturer’s specification.

4.1 Loading and Unloading

Using the hydraulic valve controls and following the correct labeling procedure, slowly lower the arms into the downward position. Once lowered, load or unload a reel, pull up the red safety latch and flip the top clamp open. This releases the bar from the arms. Place the reel onto the bar as needed.

To situate the reel into the proper unspooling position; first, push the red safety latch down and flip the top clamp closed to secure the bar in place. Then use the hydraulic valves to raise the arms to the highest position.

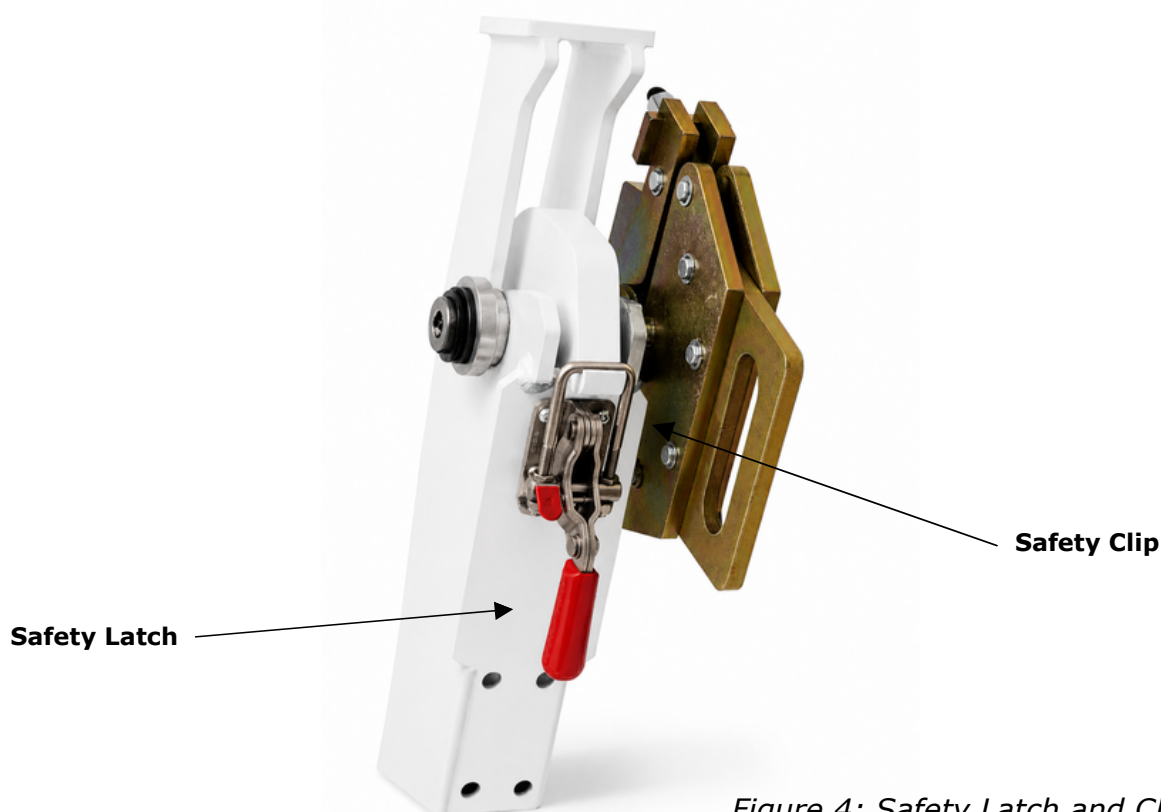


Figure 4: Safety Latch and Clip

WARNING



If the arms are lowered and the latch is not secured, the bar may slide off the lifting arm. This situation poses a risk of injury to individuals and potential damage to equipment.

4.1 Loading and Unloading

To secure the bar collar into place, loosen the hex nut and slide the bar collar securely against the reel carriage. Once in the desired position, tighten the hex nut back into place.

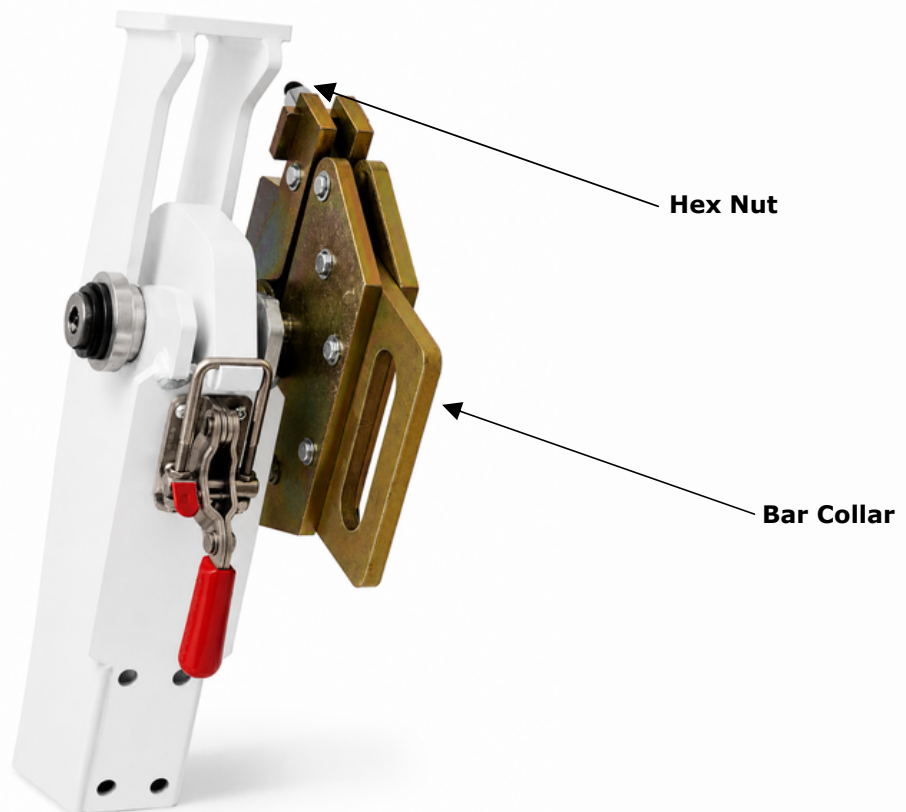


Figure 5: Hex Nut and Bar Collar

WARNING



If the arms are lowered and the latch is not secured, the bar may slide off the lifting arm. This situation poses a risk of injury to individuals and potential damage to equipment.

4.2 Loading and Unloading

To release the reel, begin by loosening the set bolt on the wheel and adjust to the appropriate size. Once the wheel is in the desired position, tighten the bolt. Using the payoff arm control, press the wheels firmly against the rim of the reel, avoiding excessive pressure. Then, utilize the payoff wheel control move the wheel forward or backward, depending on the requirements of the job-site.

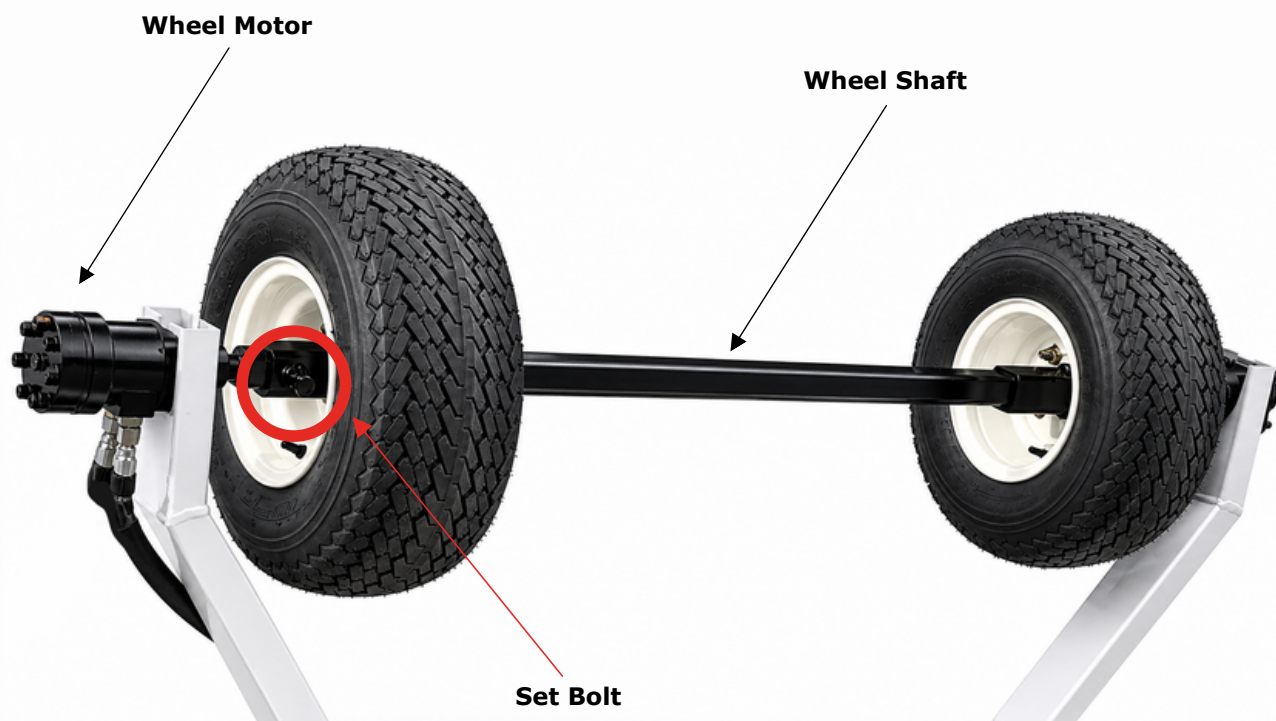


Figure 6: Payoff Wheel Assembly

WARNING



Avoid applying excessive pressure to the wheel to prevent it from bursting.

4.3 Hydraulic Controls

To raise the carriage, locate the control valve box situated on the right side of the trailer. Gradually push the desired control to move in/up, then release to lock the load into place. To lower the carriage or move the payoff arm, pull the lever towards your body, stopping to lock it in your preferred position.

NOTICE

Too much arm pressure can collapse payoff tires and result in damage to trailer, reel and person. Use extreme caution while operating.



Figure 7: Hydraulic Control Valves

⚠ WARNING



Be aware of surroundings and keep others away from the trailer while raising/lowering the carriage.

Quick Connects

To utilize quick connects, follow these steps: First, locate the control valve box on the right side of the trailer. Next, unlatch the locking mechanism and pull the box away from the trailer. Then, press in any quick connects, allowing them to lock automatically into place. Finally, operate the quick connect control lever to function as needed.

NOTICE

Quick connect produces 6 gallons a minute at 2,800 PSI

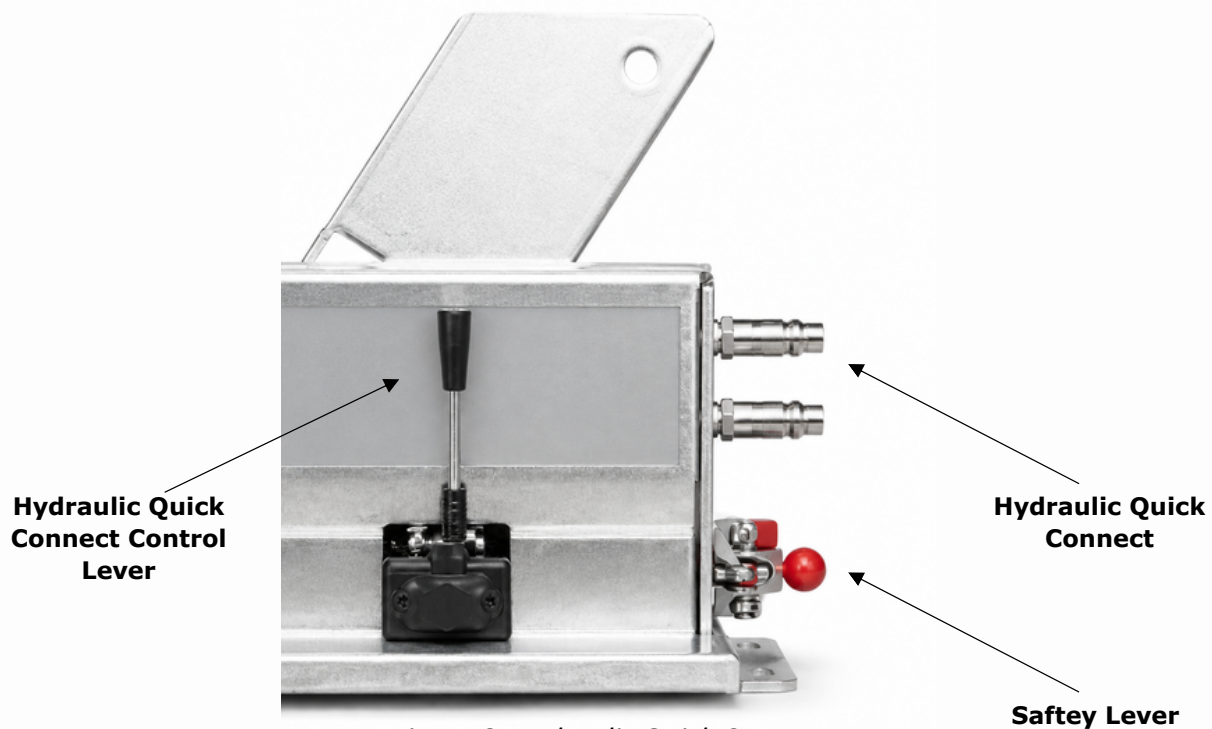


Figure 8: Hydraulic Quick Connect

WARNING



Ensure control valve box is securely latched before travel.

4.4 Power

23 Horsepower Power Unit

To operate the 23HP power unit, begin by pulling the choke and turning over the key. Once completed, push choke back into place and turn throttle to desired RPM.

NOTICE

A pressure gauge positioned atop the hydraulic gear pump will indicate the hydraulic system's PSI. **NEVER EXCEED 2,800 PSI.**

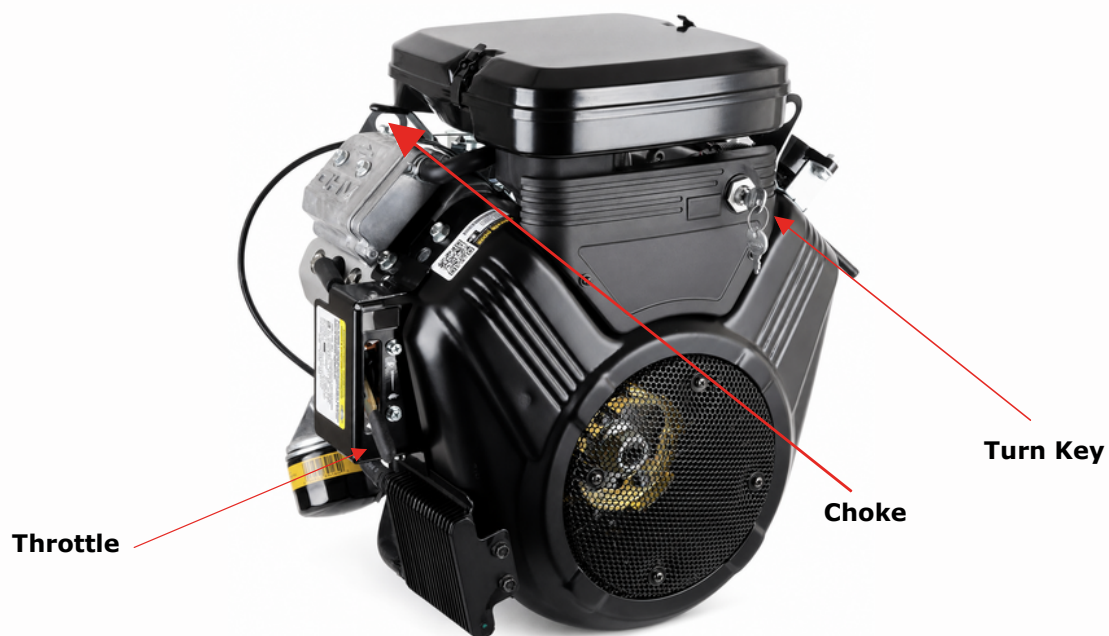


Figure 9: Power Unit Box Detail

⚠ WARNING



Be aware of surroundings and keep others away from exhaust while running as temperature will rise

Below is a summary of all maintenance procedures to be performed, along with a schedule for how often these inspections and maintenance should be performed.

5.1 Overall Inspection and Equipment

Inspect all moving parts (e.g., wheels, motors, slides, bearings, etc.) for excessive wear. Ensure proper maintenance per the manufacturer's specifications is being met. Inspect the structural frame of the trailer. Pay close attention to welds, looking for cracks. If damage or corrosion is found, repair and repaint immediately to maintain the frame's integrity.

5.2 Reel Carriage

Inspect the reel carriage for excessive wear and proper lubrication. If lubrication between the sleeves and carriage is needed, use a molybdenum-based lubricant. Ensure clevis pincovers are properly secured.

5.3 Bar Clamp/Latch

Verify that the bar clamp and latch are in good working condition and that all supporting fasteners are tightened.

5.5 Electrical

Verify that lighting, wiring, and wiring access covers are in good repair.

5.6 Hydraulic Valves

Verify that all fittings and hoses are tightened correctly on hydraulic valves. Ensure there are no cracks or damage to the valve body

Inspection & Maintenance Schedule

An inspection and maintenance schedule has been provided to help ensure the continued safety, reliability, and performance of all equipment. This schedule is designed as a preventative maintenance tool, allowing users to routinely check critical components, identify wear or damage early, and address issues before they result in equipment failure, downtime, or safety hazards.

The schedule outlines recommended inspection intervals—weekly, bi-weekly, monthly, quarterly, annually, and per OEM recommendations—for key equipment components, including but not limited to the frame, reel carriage, arbor lock, spring plungers, electrical systems, lights, wiring, break-away switch, OEM parts, wheels, and motors.

Following these intervals helps maintain compliance with manufacturer guidelines and industry best practices. Users are expected to reference this schedule regularly and document inspections as required. Consistent use of the inspection schedule promotes safe operation, extends equipment lifespan, reduces unexpected repairs, and supports overall operational efficiency.

Equipment	Every Week	Every Other Week	Every Month	Every 3 Months	Every year	Per OEM Recommendations
Frame				X		
Reel Carriage		X				
Arbor Lock	X					
Spring Plungers			X			
Electrical						
Lights						
Wires				X		
Break-Away Switch						
OEM Parts						
Wheels	X					
Motors						X