



RALLY TRAILER
MANUFACTURING

255 N 1125 W
Mona, UT 84645
(801) 609-2620
rallytraileremfg.com

Operations & Maintenance Manual **Single Turret Reel Trailer (STRT-726)**



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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 single turret reel trailer. 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.

GVWR	8,600 lbs
Payload Rating	6,000 lbs
Reel Width	56"
Reel Diameter	72"
Trailer Length	12'
Trailer Width	102"
Tires	215/75R 17.5

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

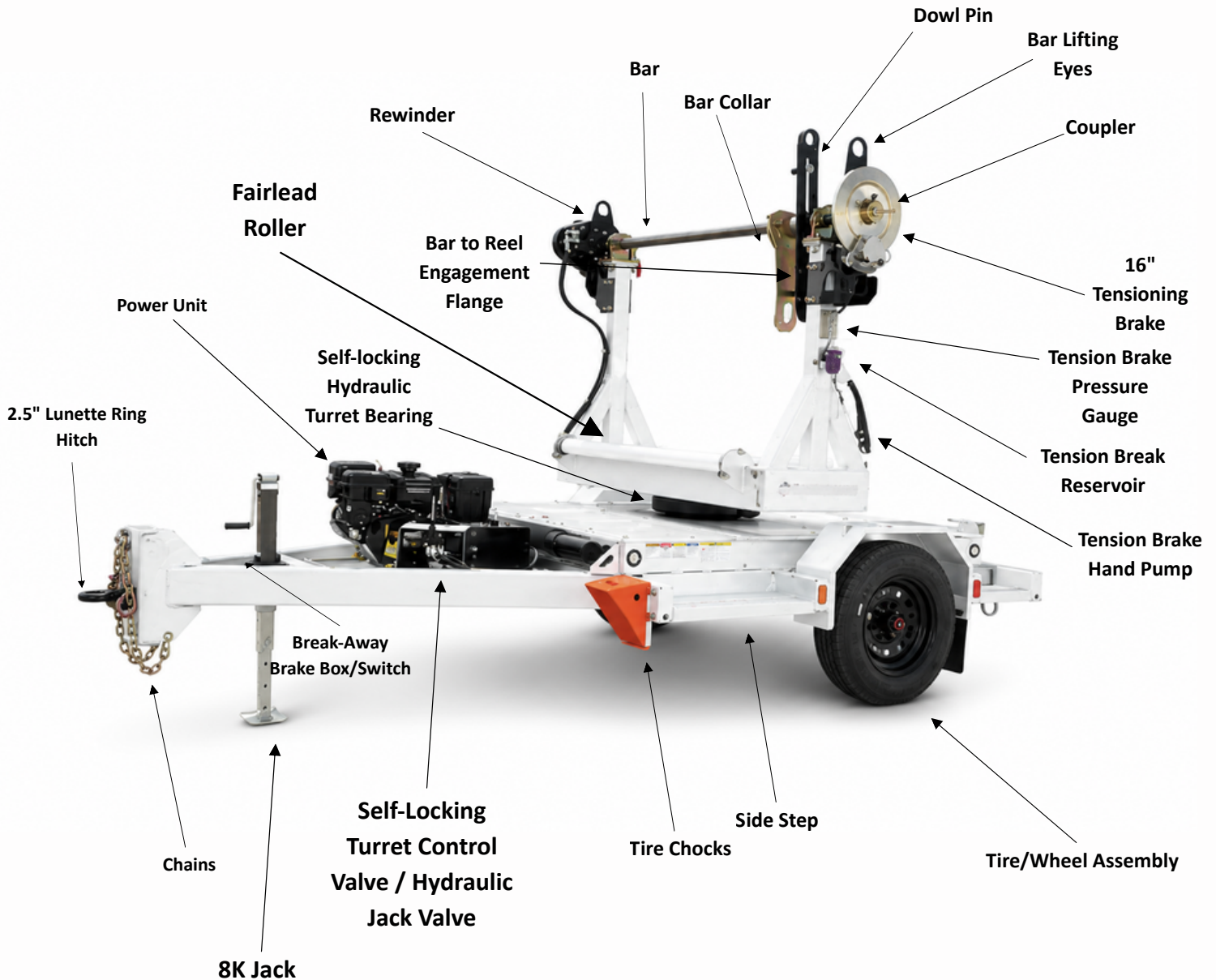


Figure 1: Single Turret Reel Trailer



Figure 2: Single Turret Reel Trailer

2.1 Single Turret Trailer

The single turret reel trailer is expertly crafted to secure a single reel of cable, accommodating sizes up to a certain specification. It allows the reel to rotate a full 360 degrees and features a self-locking mechanism. You can enhance the trailer with options such as a rewinder for either payout or retrieving cable, a 16" tension brake for maintaining cable tension, fair lead bed rollers, a galvanized finish, and a hydraulic jack.

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.

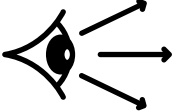
Lighting

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

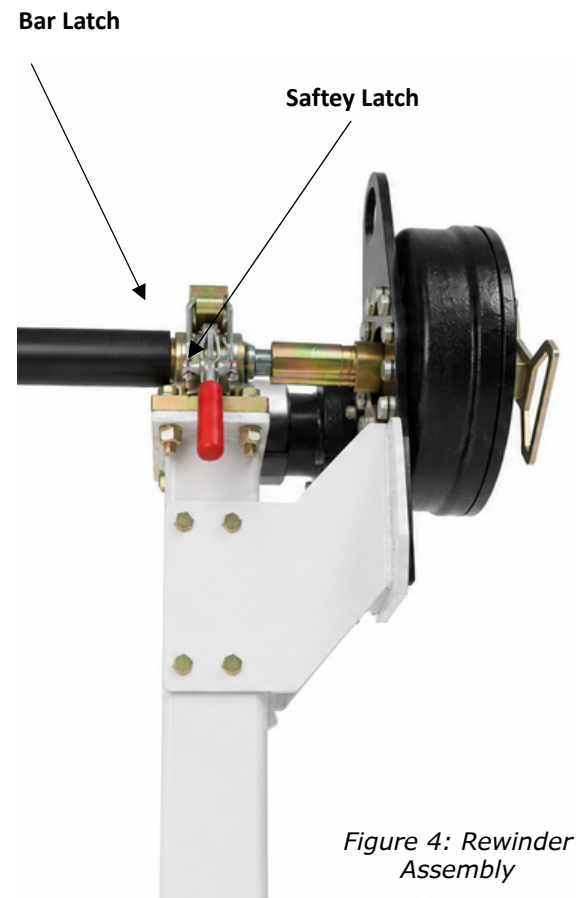
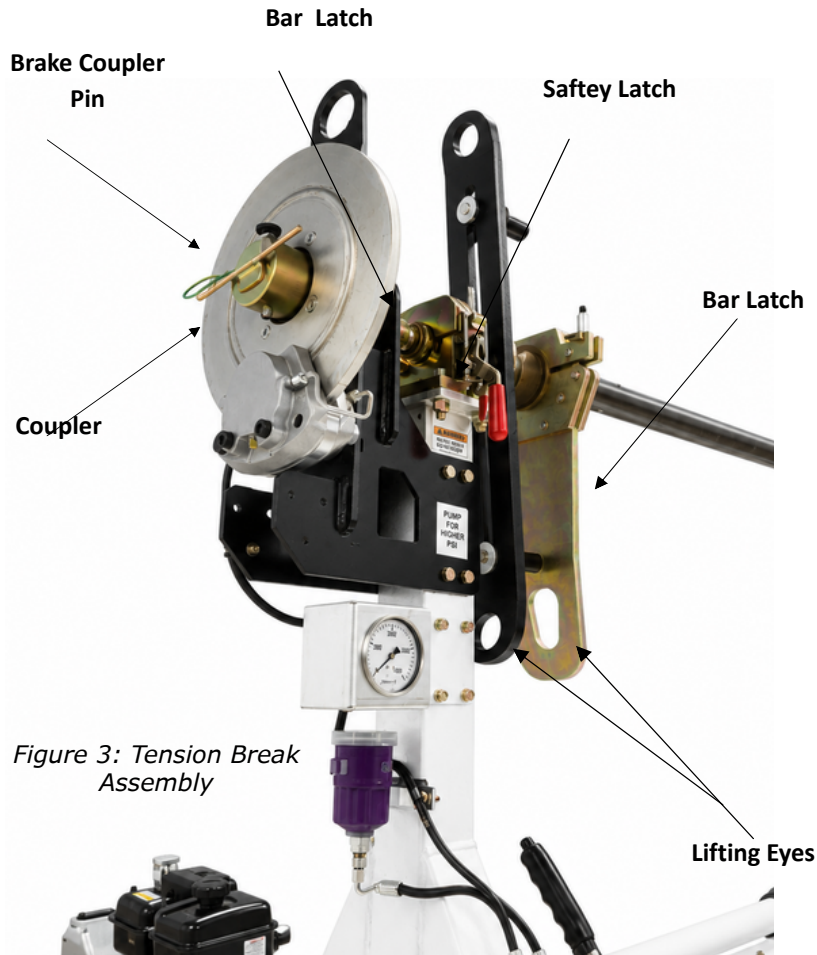
 WARNING	
	Visually inspect all hydraulic lines, valves, cylinders, etc. are free of damage and are not leaking. If damage or leaking is found, DO NOT use the trailer until the equipment has been repaired/replaced.

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

To load or unload a reel, begin by pulling the dowel pin out of its locked position and sliding the coupler out. Once the coupler is removed, lift the safety latch to release the top collar latch. Ensure that this step is completed on both sides of the reel bar. Next, using a lifting strap, hook the strap through each lifting eye to elevate the reel onto the bar.



WARNING



Beware of surroundings when loading and unloading reel.

4.1 Loading and Unloading

When loading the reel onto the trailer, make sure both bar collar latches are in the open position and that the rewinder and tension brake couplers are disengaged. Once the bar is securely on the trailer, clamp the bar latch in the closed position and engage the rewinder and tension brake couplers as necessary.

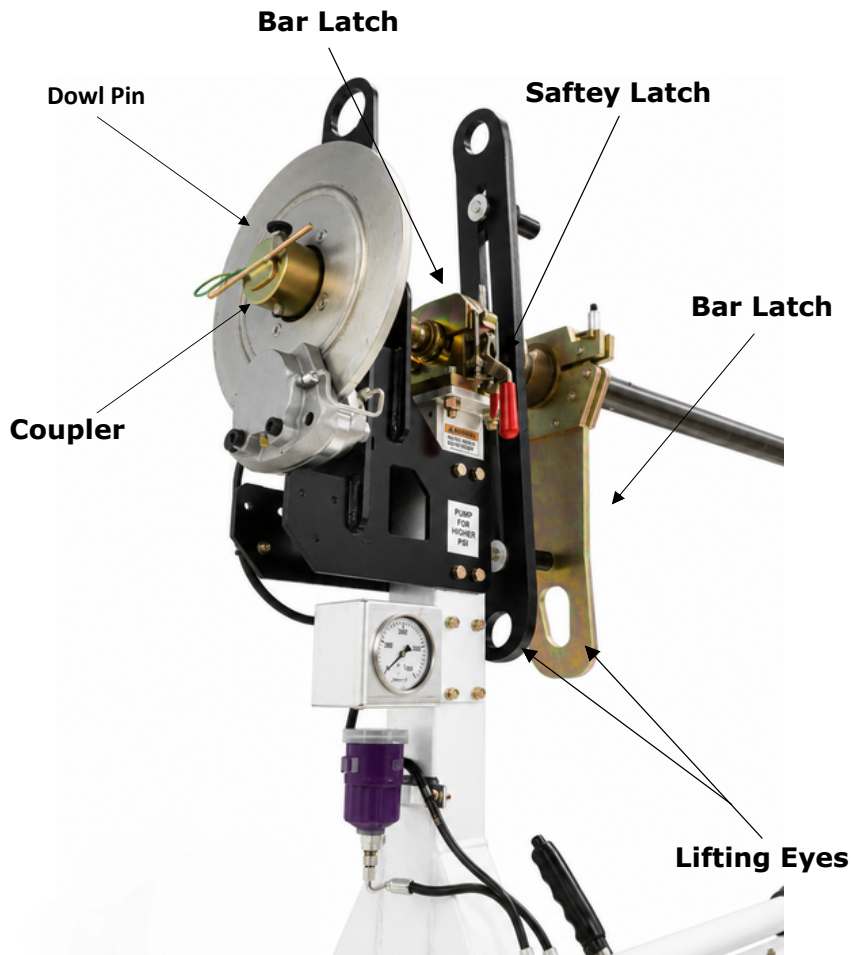


Figure 3: Tension Break Assembly

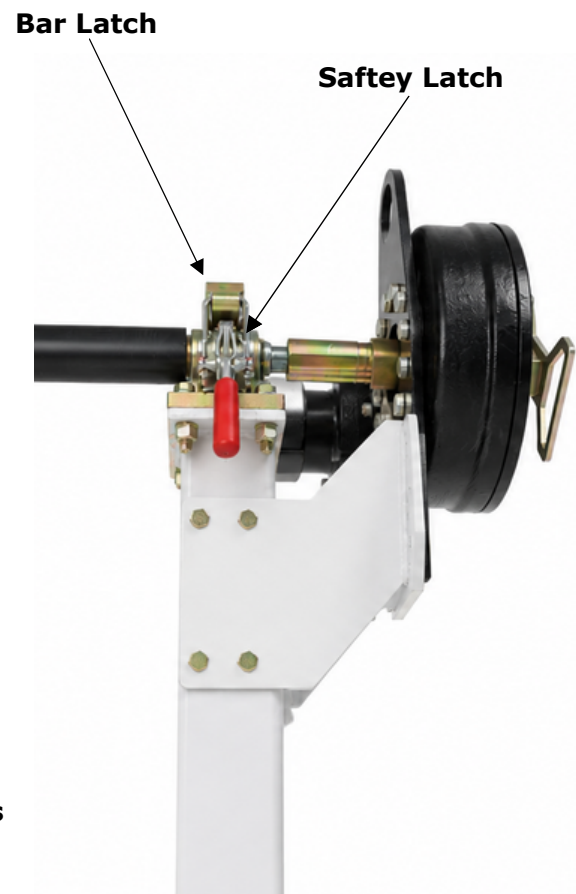


Figure 4: Rewinder Assembly

NOTICE

Ensure that the bar collar is pushed all the way against the reel and that the dowel pins are securely engaged with the side of the reel flange.

Pay-in or Pay-out

Use the hydraulic control valve located on the right hand side to control pay-in/pay-out speed. Use the hydraulic control valve on the left hand side to control quick disconnect controls

NOTICE

A Pressure Compensated Flow Divider/Combiner is located in the hydraulic line attached to the bore-end nozzle connection of the carriage cylinders.



Figure 6: Hydraulic Control Valves

WARNING



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

4.2 Unspooling

Engage the rewriter to the reel bar by pulling the spring pin outward to release the locking mechanism. Position the rewind coupler over the bar and hook it securely into place. Release the spring pin to allow it to lock the coupler onto the bar, ensuring the connection is fully seated and secure. After the rewriter is properly engaged, move to the hydraulic control valves and operate the controls according to the labeled valve functions. Monitor the system during operation to ensure smooth and controlled movement of the reel.

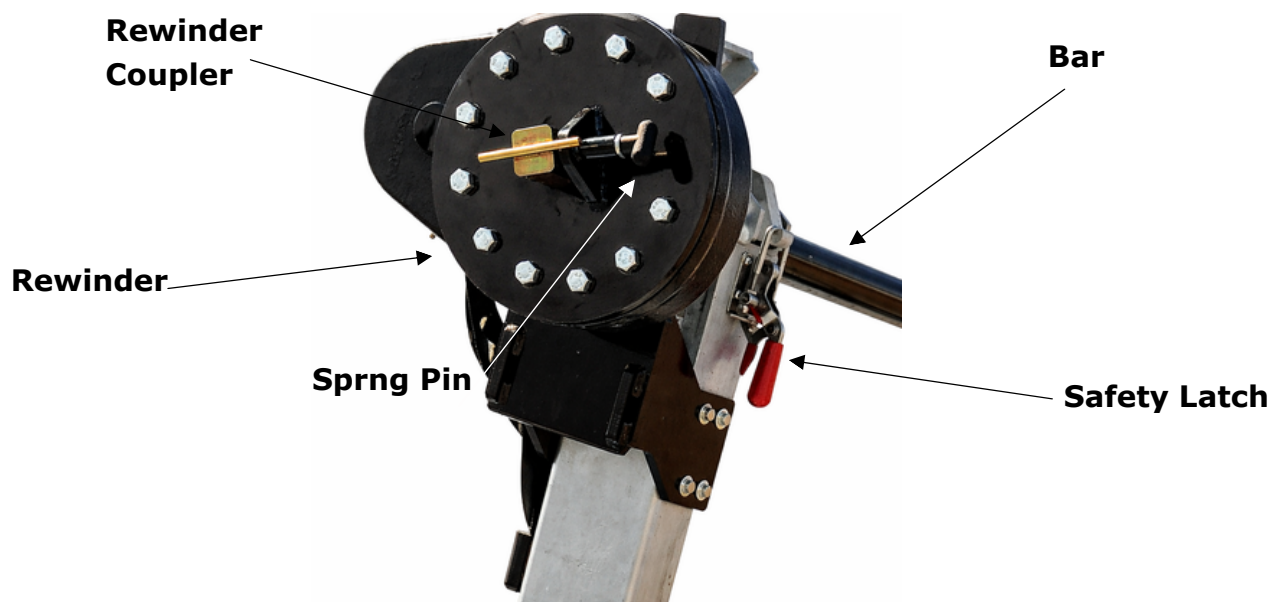


Figure 5: Rewinder

Notice

A quarter turn of the 5/8" bar lock spring plunger will secure the pin in the retracted position.

WARNING



Bar lock spring plunger and arbor lock pin must be in a locked position before traveling. Failure to lock pins could cause damage to property, injury to self, or death.

4.3 Power

14 Horsepower Power Unit

To operate the 14HP power unit, begin by pushing the black throttle as shown on the lever. Next, turn the key located on the right side of the engine. After completing these steps, the power unit should be running.

If the engine has difficulty starting, push the grey choke as indicated.

NOTICE

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

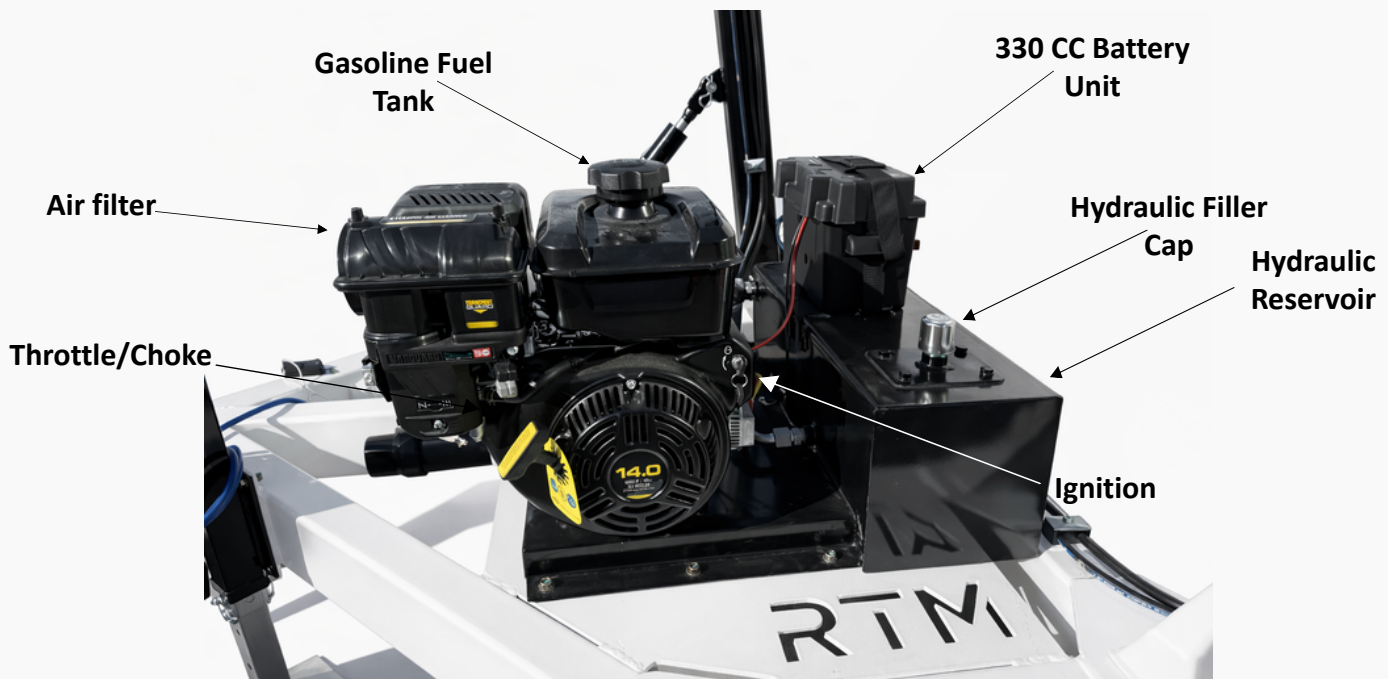


Figure 7: Power Unit Box Detail

! WARNING



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

4.4 16" Hydraulic Tension Brake

To build pressure in the system for the caliper to brake the rotor, begin by pushing down brake release button and manually pumping the brake hand pump. Continue pumping until reaching desired pressure. Once you reached, release release button and the brank hand hump will lock into place at desired pressure. To release pressure, push down brak release button and push brake hand pump forward.

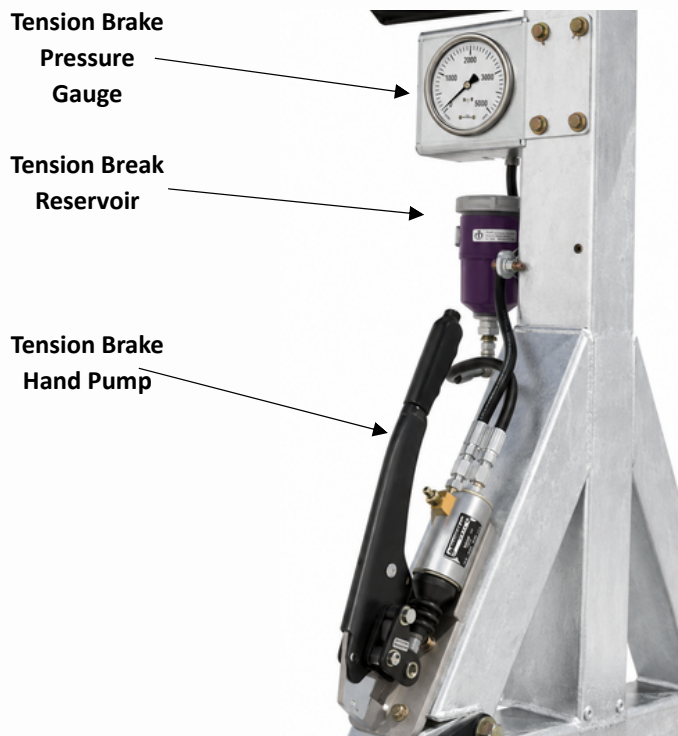


Figure 8: Hydraulic Tension Brake

NOTICE

This may take up to 30 seconds to build pressure. Do not exceed 3000 psi.

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.

5.4 Spring Plungers

Verify Spring Plungers are operating properly.

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	X					
Wires				X		
Break-Away Switch	X					
OEM Parts						
Wheels						X
Motors						X