



**RALLY TRAILER**  
**MANUFACTURING**

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

Operations & Maintenance Manual  
**Self Loading Reel Trailer**  
**(SLRT-17)**



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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. Read and ensure there is a full understanding of this manual before proceeding to operate and maintain any equipment.

 <b>WARNING</b>	
	<b>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.</b>

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.

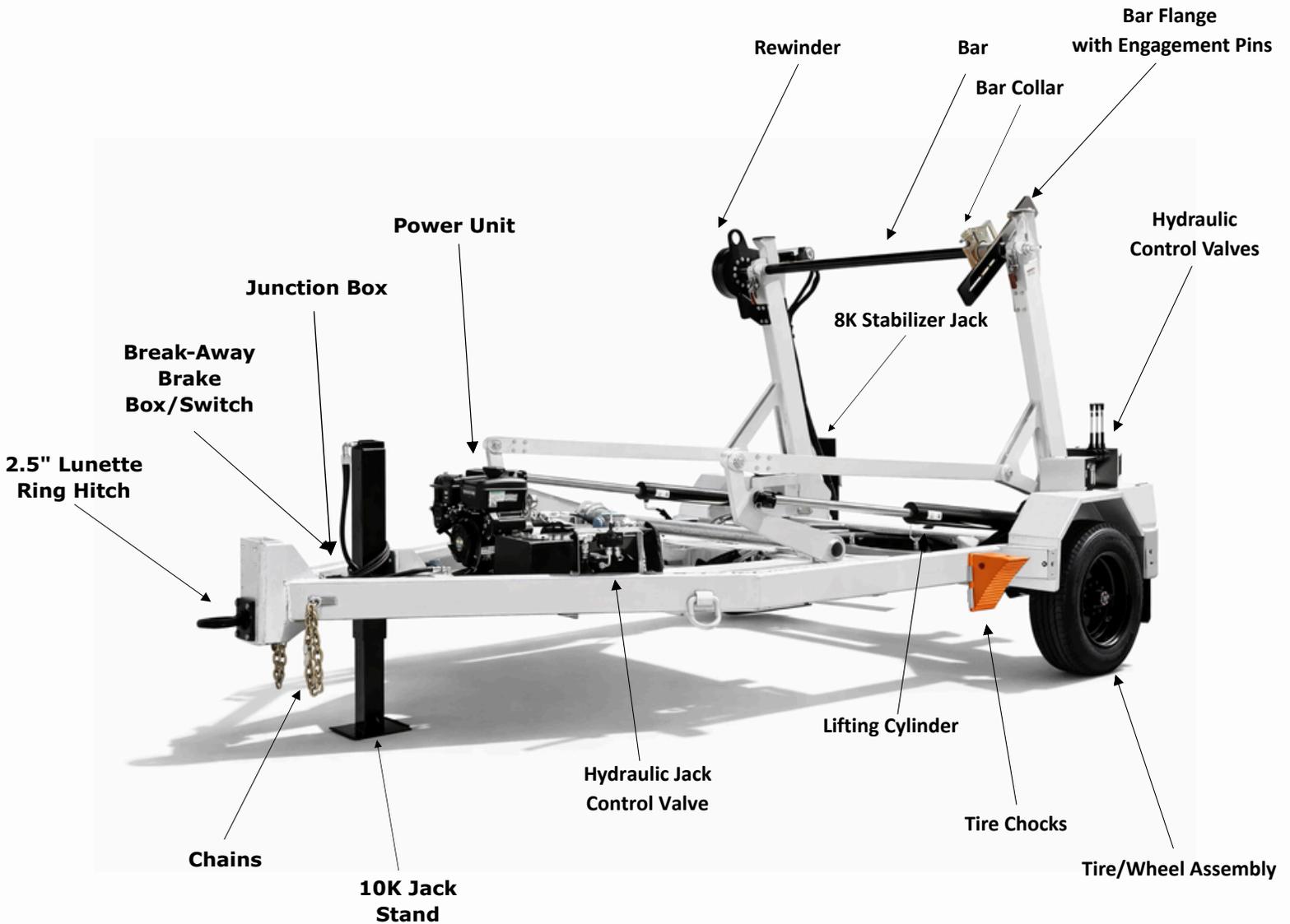
## 1.2 Operation and Maintenance Manual Overview

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.

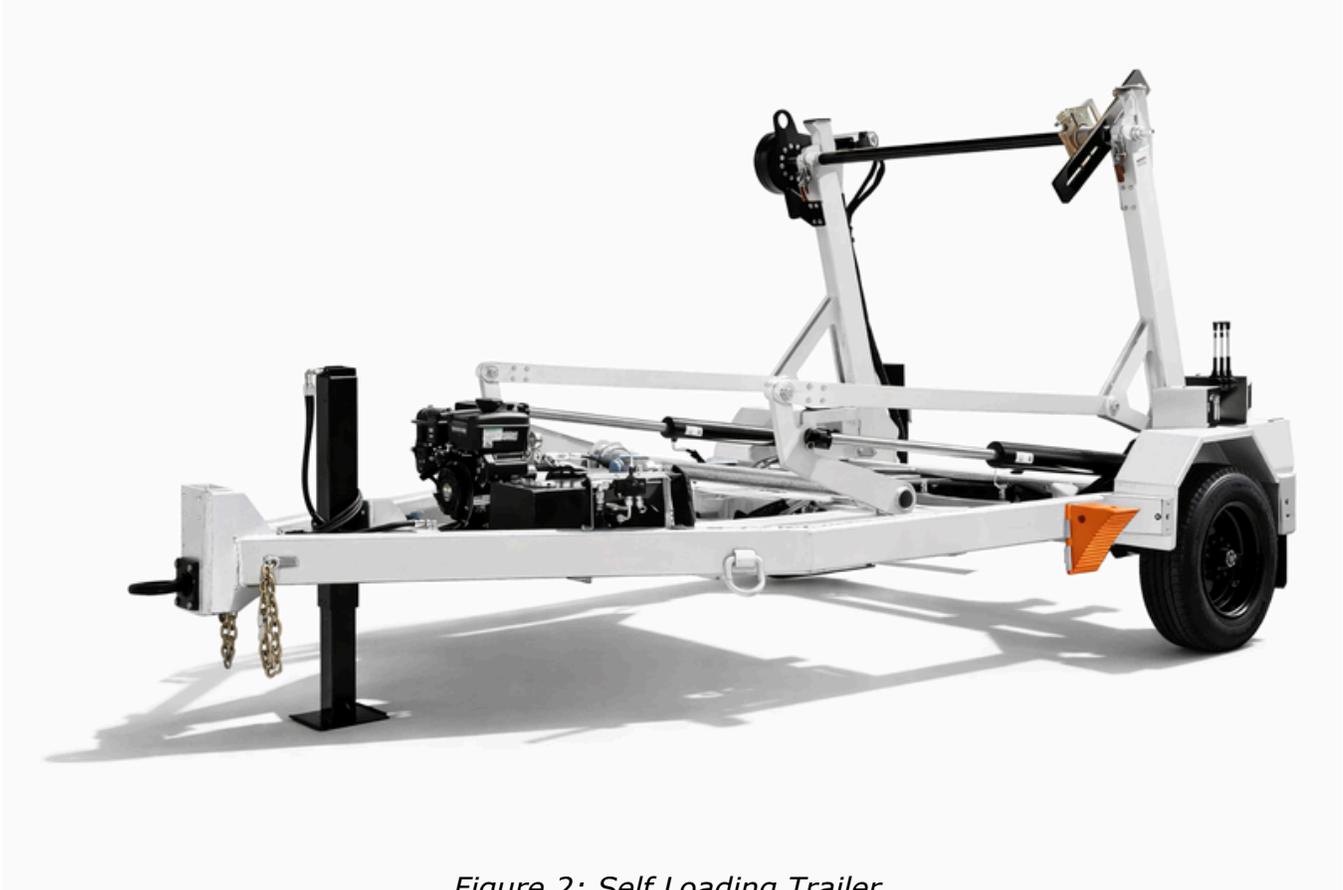
# 1.3 Trailer Specification

GVRW	9,500lbs
Payload Rating	7,000 lbs
Reel Width	65"
Reel Diameter	120"
Trailer Length	15'
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 Trailer Features*



*Figure 2: Self Loading Trailer*

### **2.1 Self-Loading Reel Trailer**

The Self-Loading Reel Trailer is engineered for efficient transport and handling of large cable or conduit reels in utility, telecom, and power applications. Powered by a 14 HP engine, the hydraulic lifting system delivers a 7,000-lb lift capacity, allowing operators to load a reel directly onto the trailer. Two hydraulic arms pick up and load the reel, accommodating reels up to 120" in diameter and 65" wide.

Reels are loaded onto a 2 5/8" Rally roller bar, equipped with centering cones, locking collars, and lifting eyes for secure transport. Built for heavy-duty job-site use, this trailer offers a practical solution for reel handling without the need for additional machinery.

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

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

## 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.

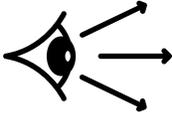
### Lighting

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

 <b>WARNING</b>	
	<b>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.</b>

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, pull up the red safety latch and flip the top clamp open. This releases the bar from the arms. Using the hydraulic valve controls and following the correct labeling procedure, slowly lower the arms into the downward position. Once lowered, place the reel onto the bar as needed. If applicable ensure dowel pins are engaged into the reel.

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

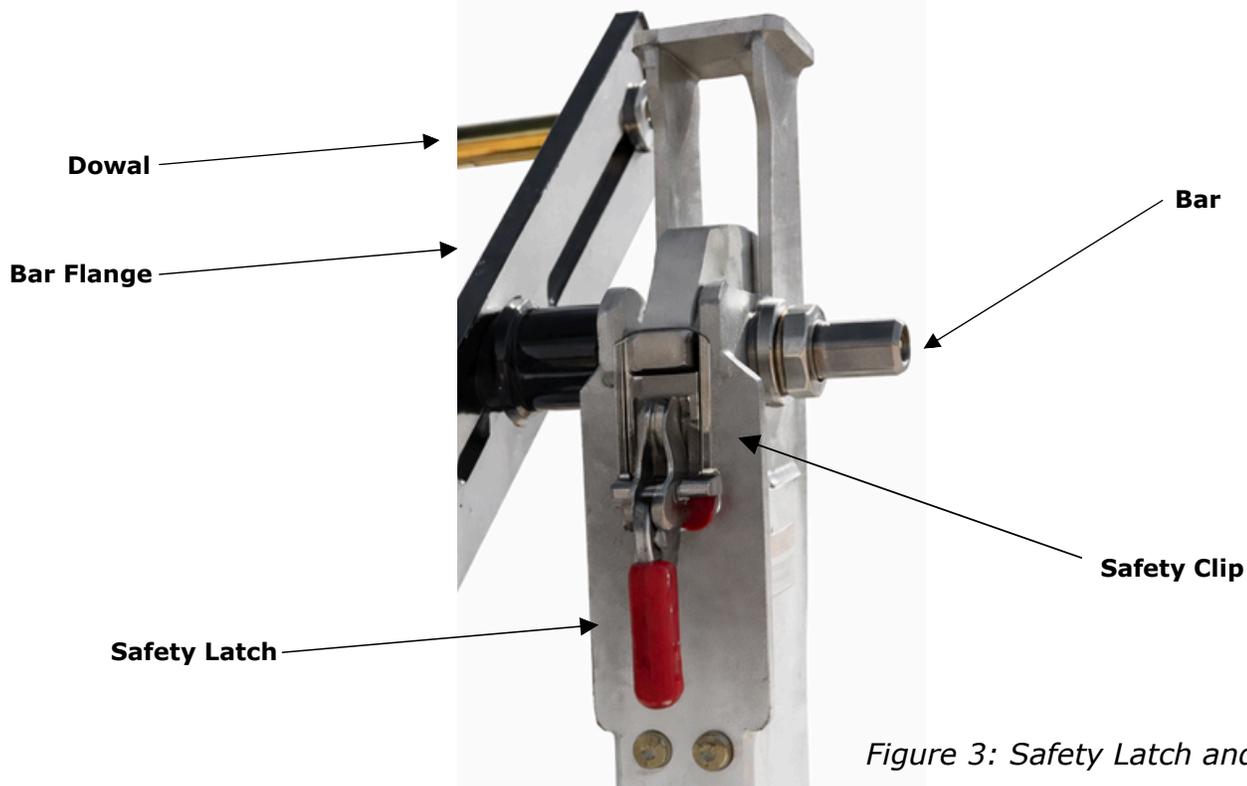


Figure 3: Safety Latch and Clip

### **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.

## Raise Carriage

Use the hydraulic control valves located on the right hand side to raise the carriage with the reel loaded. Some minor unsynchronized movement of the cylinders is to be expected if the cylinders get too unsynchronized; STOP motion upward.

### NOTICE

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

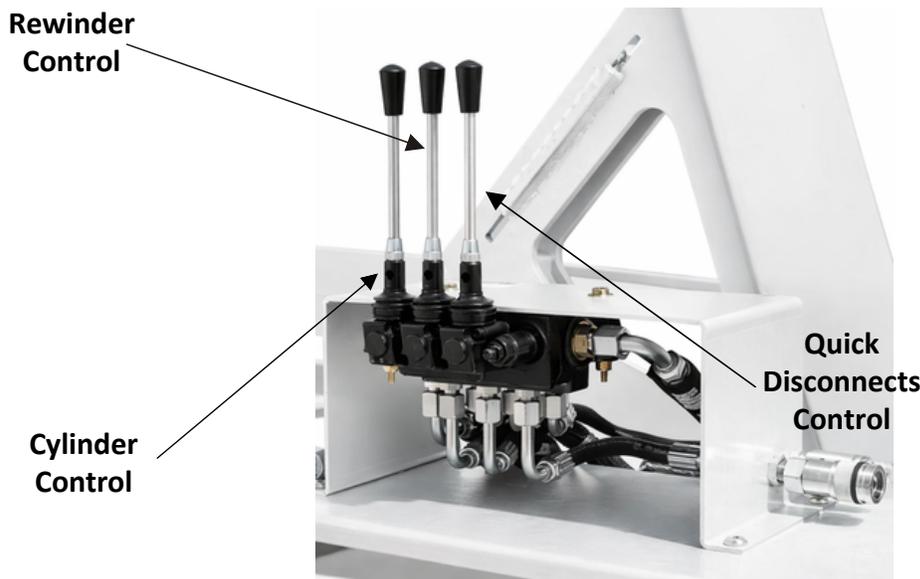


Figure 4: Hydraulic Control Valves

### **WARNING**



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

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

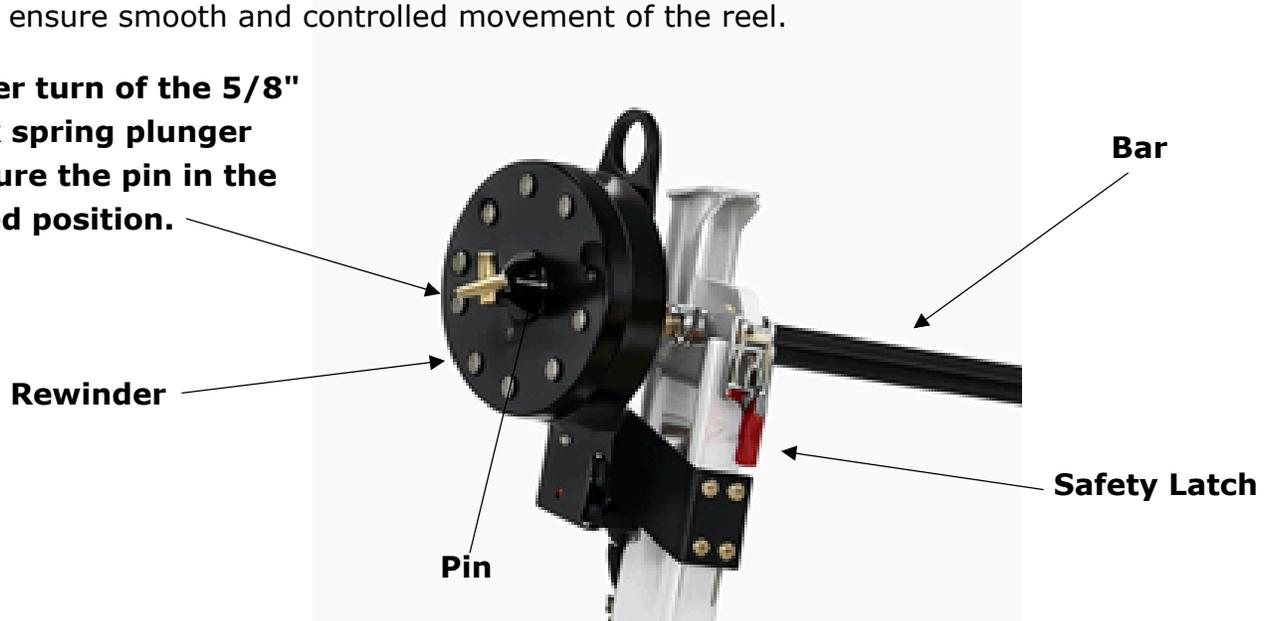


Figure 5: Rewinder

### 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 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.\*\***

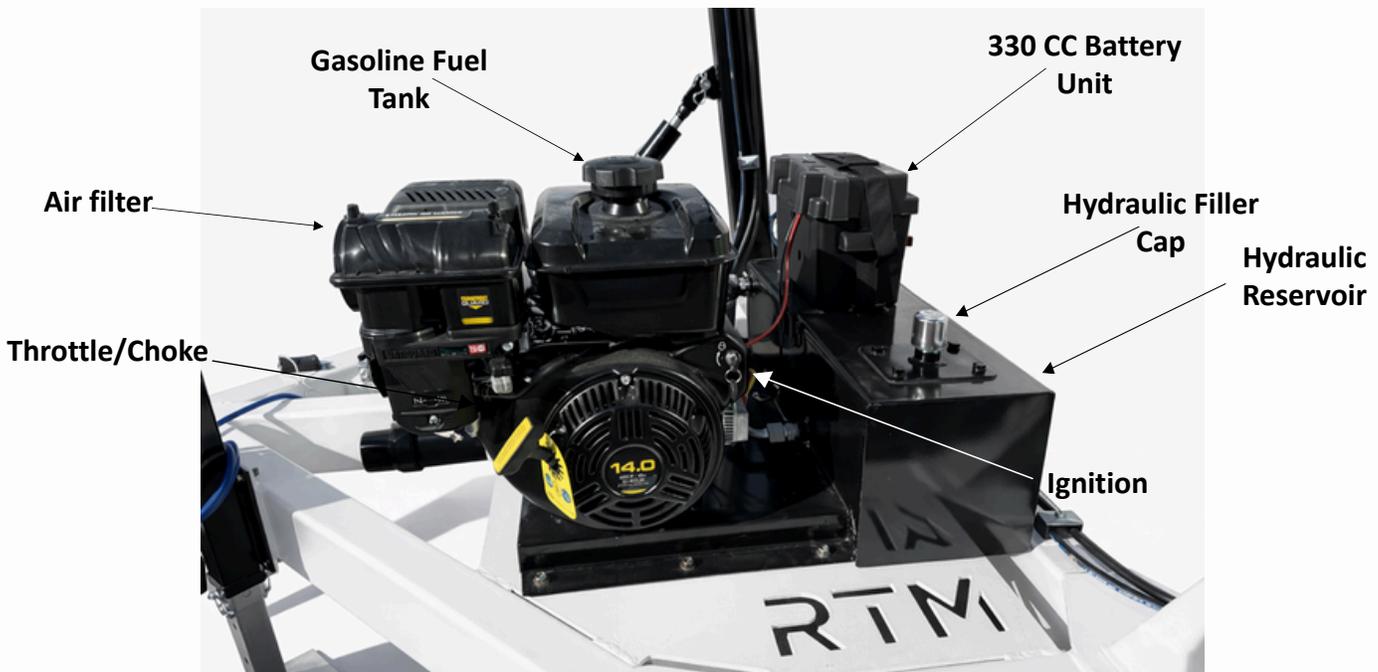


Figure 6: Power Unit Box Detail

#### ⚠ 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 pin covers 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

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## 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
<b>Frame</b>				X		
<b>Reel Carriage</b>		X				
<b>Arbor Lock</b>	X					
<b>Spring Plungers</b>			X			
<b>Electrical</b>						
Lights	X					
Wires				X		
Break-Away Switch	X					
<b>OEM Parts</b>						
Wheels						X
Motors						X