Wagner-Smith

OPERATOR'S AND PARTS MANUAL
FOR
THE WAGNER-SMITH EQUIPMENT COMPANY
MODEL T-RC-96X54-12
SINGLE REEL CARRIER
SERIAL #
CONTROL #

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SECTION “A”
SAFETY

FIG	DESCRIPTION	PAGE #
	ATTENTION: This manual is intended to give operational, parts, and maintenance information for the unit referenced on the front cover. It is not intended to replace safe operating practice or serve as a tension/ stringing operation procedures manual. This piece of equipment is designed for use in tension/ stringing operations within its specification only. Any use other than this that is not authorized by Wagner-Smith Equipment Co., is potentially dangerous, and could result in severe injury or death. Additionally, this equipment should only be operated by trained personnel who are fully aware of the proper operating procedures and potential safety hazards encountered during tension/ stringing operations.	
	SAFETY WARNINGS	A – 2…5 A – 6…7

SECTION “A”
SAFETY

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices.

“DANGER” – Is used to indicate a hazardous situation which has a high probability of death or sever injury. Danger should not be considered for property damage accidents unless personal injury risk is present.

“WARNING” – Is used to indicate a hazardous situation which has some probability of death or serious injury. Warning should not be considered for property damage accidents unless personal injury risk is present.

“CAUTION” – Is used to indicate a hazardous situation which may result in minor or moderate injury. However, caution should not be used when there is a possibility of death or serious injury. Caution should not be considered for property damage accidents unless personal injury risk is present.

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

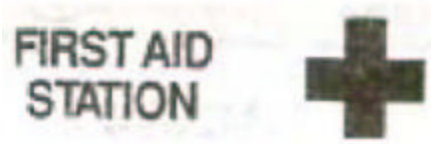
Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact Wagner-Smith Equipment Company.

SECTION “A”
SAFETY

PREPARE FOR EMERGENCIES

Be prepared if a fire or accident occurs. Keep a first aid kit and fire extinguisher handy. Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against uncomfortable loud noises.

STAY CLEAR OF ROTATING SPINDLES AND CHAIN DRIVES

Entanglement in rotating reel spindle and reel spindle drive can cause serious injury or death.

Keep all guards in place at all times.

Wear close fitting clothing. Stop the engine and be sure the drives are completely stopped before performing any type of service on the equipment.

PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work. Keep area clean and dry. Never lubricate, service, or adjust machine while it is moving. Keep hands, feet, and clothing from power driven parts. Disengage all power and operate controls to relieve pressure. Stop the engine. Remove the key. Allow machine to cool.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove all buildup of grease, oil, or debris.

Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.

SECTION “A”
SAFETY

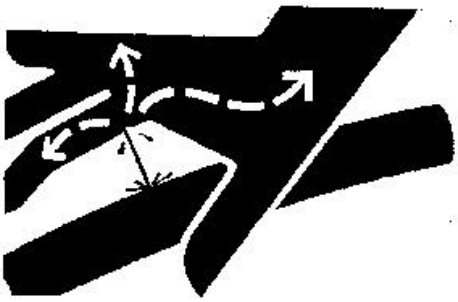
AVOID HIGH-PRESSURE FLUIDS

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately.



REMOVE PAINT BEFORE WELDING OR HEATING

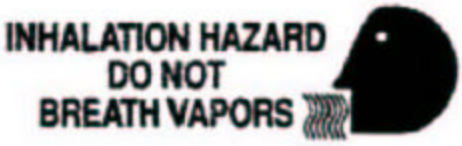
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you use sand or grind paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper container and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



SERVICE COOLING SYSTEM SAFELY

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Only remove filler cap when cool enough to touch with bare hands. Slowly loosen cap to first stop to relieve pressure before removing completely.

SECTION “A”
SAFETY

FILLING FUEL TANK

CAUTION: Handle fuel carefully. Do not fill the fuel tank when engine is running.

DO NOT smoke while filling fuel tank or servicing fuel system.

IMPORTANT: The fuel tank is vented through the filler cap. If a new filler cap is required, always replace it with an original vented cap.

Fill fuel tank at the end of each day’s operation to prevent condensation in tank as moist air cools and freezing during cold weather.

WARNING

ELECTROCUTION HAZARD

DO NOT OPERATE THIS MACHINE WITHOUT PROPER GROUNDING

WARNING

THIS MACHINE IS A HIGHLY SPECIALIZED PIECE OF EQUIPMENT THAT SHOULD BE OPERATED ONLY BY QUALIFIED PERSONNEL

SECTION “B”
INTRODUCTION

FIG	DESCRIPTION	PAGE #
	INTRODUCTION	B - 2

SECTION “B”
INTRODUCTION

The Wagner-Smith Company Model TRC-96X54-12 is a trailer mounted reel carrier that is designed to transport and tension a cable or conductor reels up to 96 inches diameter and 54 inches wide and weight up to 12,000 pounds per reel.

The reel brake is operated by a hydraulic brake caliper that applies friction to bronze brake discs. The operator via a hand pump and metering valve controls braking force.

The reel spindle is a quick-change type that requires no hand tools for changing the reels. Reel change is accomplished by opening two flip open bearing caps and lifting the reel spindle straight up.

The manufacturer’s manuals, for the majority of this unit’s components, are included to facilitate repairs, should they become necessary.

SECTION “D”
DESCRIPTION OF INDIVIDUAL FUNCTIONS

FIG	DESCRIPTION	PAGE #
	QUICK CHANGE REEL SPINDLES	D – 2
	REEL CALIPER BRAKES	D – 3

SECTION “D”
DESCRIPTION OF INDIVIDUAL FUNCTIONS

QUICK CHANGE REEL SPINDLES

The individual reel spindles on this unit are unloaded by removing the pins (Fig. 1A) on both sides and opening the flip open type bearings (Fig. 1B). The reel spindle is then removed from the unit by lifting straight up by the lifting loops (Fig. 2) with a crane or boom truck. Installation is accomplished by reversing the above procedure.

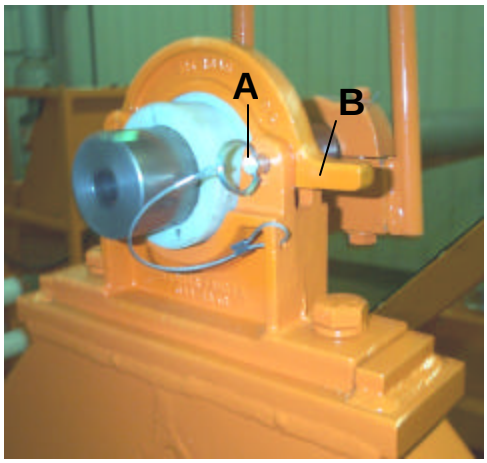


Figure 1 Spindle Bearing Lock

Figure 2 Spindle Lifting Loops

The clamping bolts on the lifting loops must ALWAYS be torqued to the following torque chart except when reel spindle is being removed. After installing reel spindle into reel and drive pins are fully seated into reel, the lifting loop must be installed right up against the reel and torque to the below chart.

5/8 inch bolt 140 ft-lbs.
3/4 inch bolt 240 ft-lbs.

SECTION “D”
DESCRIPTION OF INDIVIDUAL FUNCTIONS

REEL CALIPER BRAKES

The reel brake on this unit is a hydraulic caliper type (fig 3) using a hand pump to set braking for the conductor reel. Braking is accomplished by closing the reel brake “REEL CALIPER” control valve by turning fully clockwise, use the hand pump to increase braking, to decrease braking turn the “REEL CALIPER” control valve counterclockwise.

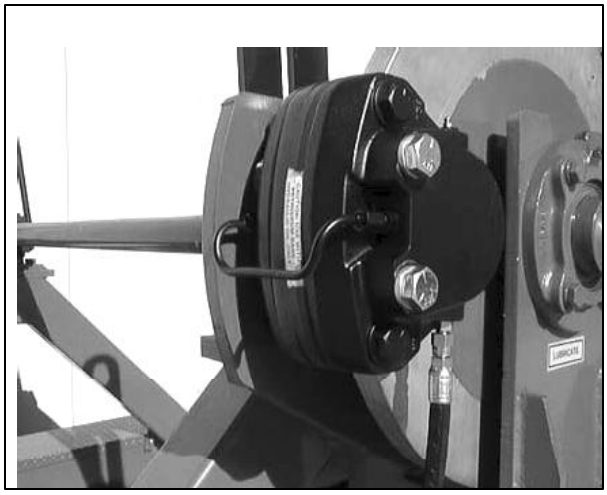


Figure 3: Reel Brake Caliper

SECTION “E”
OPERATIONS

FIG	DESCRIPTION	PAGE #
	TOWING THE TRAILER	E – 2
	FIELD SETUP	E – 3
	PERFORM DAILY MAINTENANCE	E – 3
	LOADING THE CONDUCTOR REELS	E – 4…5

SECTION “E”
OPERATIONS

TOWING THE TRAILER

Towing Procedures:

Use a properly equipped and sized vehicle when towing this equipment. Always check to see that the pintle hitch is secure and locked, safety chains, breakaway switch and lighting/brake pigtail are properly fastened to tow vehicle. Front and rear jacks are in the retracted position and locked. Any loose equipment or objects must be removed, tie down, or placed in a storage box, so not to become a hazard while the unit is being transported. Levelwind cylinder should be in the depressed position. Before leaving the yard, check brakes, running, turn, and brake lights on trailer. Tires should be inflated while cold for maximum payload capacity; tire pressure varies with tire sizes. **Note:** Sticker for tire pressure located near wheel wells.

Towing checklist:

1) Pintle Hitch secure and locked (Figure 1-F)
2) Safety Chain attached (Figure 1-D)
3) Breakaway Switch attached (Figure 2-E)
4) Lighting and brake Pigtail attached (Figure 2-H)
5) Front and rear jacks in up and locked position (Figure 1-C&A)
6) Any loose objects removed from unit
7) Check operation of brakes
8) Check lighting (turning, running, and brakes) (Figure 1-E)
9) Tires and tires air pressure (Figure 1-B)

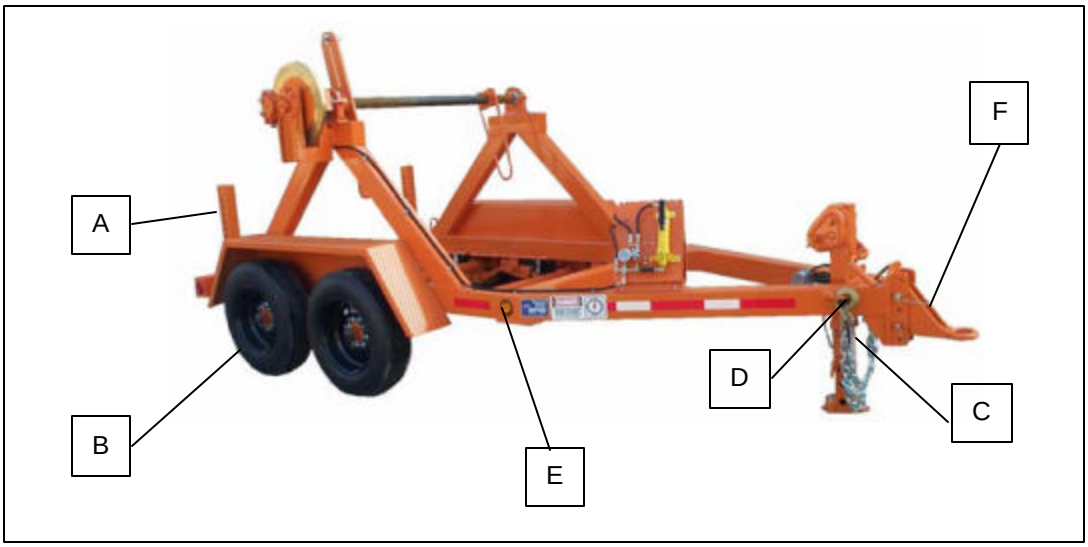


Figure 1: Trailer

SECTION “E”
OPERATIONS

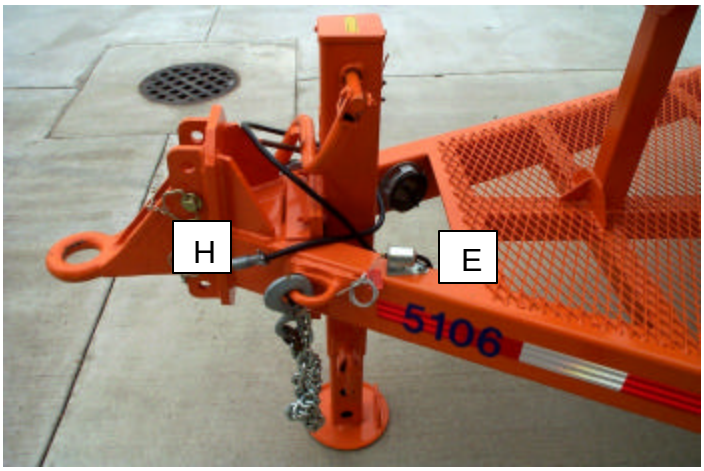


Figure 2

FIELD SETUP

After you position the trailer, leave the unit either attached to the tow vehicle or anchor it securely. Lower the front and rear jacks to stabilize and level the unit.
Ground the unit properly to prevent the unit from becoming electrically energized and cause operator injury. Each unit has grounding bars already welded to the trailer for proper additional grounding attachments. Unit should be grounded to IEEE or your company’s standard procedures.

FIELD SET-UP CHECKLIST:

- Level the unit as follows:
    1) Lower the tongue of the trailer (Figure 1-F).
    2) Extend the rear stabilizers and lock (Figure 1-A).
    3) Raise the front jack until the trailer is level (Figure 1-C).
    4) Anchor the trailer securely.
    5) **"Ground the unit"** to prevent operator injury should the unit become electrically energized.

PERFORM DAILY PREVENTATIVE MAINTENANCE

1. Inspect for loose bolts, pins, etc.
2. Check all brake linings

SECTION “E”
OPERATIONS

LOADING THE CONDUCTOR REELS

1. Load the conductor reel as follows:
   a. Rotate the empty reel spindle to position the reel lift eye in the up position (Fig. 2).
   b. Lock the hydraulic caliper brake to hold the spindle in its up position (Fig. 3).
   c. Attach lifting device to be used, then open the bearing housing by removing the locking pin (Fig. 4) and flip open the bearing housing (Fig. 5) on both sides and lift reel spindle straight up to remove.
   d. Remove the spindle bearing (Fig. 6), reel locking collar (Fig. 7), and install spindle in the conductor reel. Pay close attention that the conductor will spool off in the proper direction.
   e. Re-install the reel spindle by reversing the above procedures.

Figure 2 Spindle Lifting Loops

Figure 3 Caliper Brake

Figure 4 Spindle Bearing Housing Pin

Figure 5 Spindle Housing Cap Open

SECTION “E”
OPERATIONS

Figure 6 Spindle Bearing

Figure 7 Reel Locking Collar