Wagner Smith Equipment Co.

SERVICE FROM POLE TO POLE

OPERATOR'S AND PARTS MANUAL

MODEL T-3RC-90X52-30

REEL CARRIER

CONTROL # _____

SERIAL #_____

Wagner-Smith Equipment Co.
5701 Highpoint Parkway
Burleson, TX 76028
USA

(800) 666-6567
(817) 447-8085
Fax: (817) 447-8917
Web page: http://www.wagnersmithequipment.com

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OPERATOR'S MANUAL INDEX

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A	HAZARD WARNING
B	INTRODUCTION
C	SPECIFICATIONS
D	DESCRIPTION OF INDIVIDUAL FUNCTIONS
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SECTION “A”
SAFETY

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 other use outside of this 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.

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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 severe injury.

“WARNING” – Is used to indicate a hazardous situation which has some probability of death or serious injury.

“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.

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 effect 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

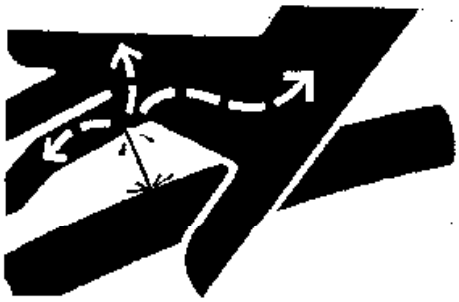
AVOID HIGH-PRESSURE FLUIDS

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 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.

WARNING

ELECTROCUTION HAZARD

DO NOT OPERATE THIS MACHINE WITHOUT PROPER GROUNDING

SECTION “A”
SAFETY

THIS MACHINE IS A HIGHLY

SPECIALIZED PIECE OF

EQUIPMENT THAT SHOULD BE

OPERATED ONLY BY

QUALIFIED PERSONNEL

SECTION “B”
INTRODUCTION

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SECTION “B”
INTRODUCTION

The Wagner-Smith Company Model T-3RC-90X52-30 is a trailer mounted, reel carrier unit that is designed to transport conductor reels up to 90 inches diameter and 52 inches wide and weight up to 10,000 pounds per reel. The reel spindles are 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 purpose of this manual is to acquaint the operator with the unit and its operation and maintenance. Each of its components will be described so that the operator may understand its function.

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

SECTION “C”
SPECIFICATIONS

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SECTION “C”
SPECIFICATIONS

WAGNER-SMITH
MODEL T-3RC-90X52-30

TRAILER MOUNTED
THREE PLACE
REEL CARRIER

Specification No. 47090-14
Date 02/12/19

REEL CARRIER

- Reel Quantity ..... (3) Three
- Maximum Reel Diameter ..... 90 inches
- Maximum Reel Width ..... 52 inches
- Maximum Reel Weight ..... 10,000 lbs.
- Spindle Diameter ..... 2-3/4 inch
- Reel Loading ..... Quick change type

UNDER CARRIAGE

- Axle(s) ..... Triple 12,000 lbs. capacity each
- Tires ..... 235/75R17.5 LR H
- Suspension ..... Slipper Spring
- Brakes ..... Electric with battery and breakaway switch

DIMENSIONS

- Unit Length ..... 386 inches [32 feet 2 inches]
- Unit Width ..... 96 inches [8 feet 0 inches]
- Unit Height ..... 116 inches [9 feet 8 inches] Fairlead retracted
- Net Weight ..... 6,460 lbs.
- GVWR ..... 38,886 lbs.

TRAILER FEATURES

- Front Hitch ..... Adjustable 3” Lunette eye
- Lighting ..... DOT Regulation LED
- Safety Chain w/Hooks ..... Standard
- Front Jacks ..... Manual Crank Type

SECTION “D”
DESCRIPTION OF INDIVIDUAL FUNCTIONS

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Figure 2...3	FAIRLEAD	D-2

SECTION “D”
DESCRIPTION OF INDIVIDUAL FUNCTIONS

QUICK RELEASE 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 and reel are then removed from the unit by lifting straight up with a crane or boom truck. Installation is accomplished by reversing the above procedure.

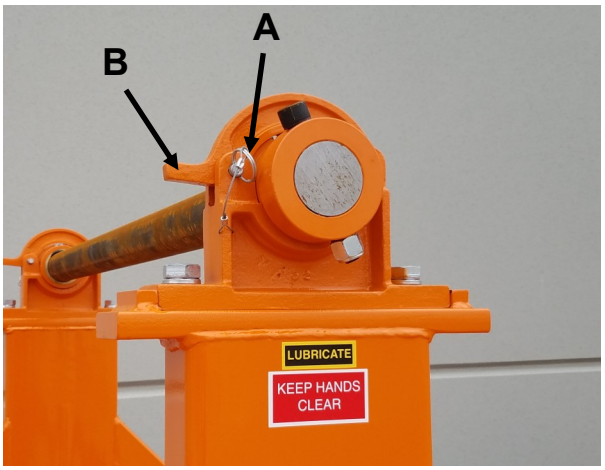

Figure 1: Spindle Bearing Lock

FAIRLEAD

The rear fairlead is adjustable vertically by a quick release pin (Fig. 3A) on both sides of the stand.

Figure 2: Fairlead Stand

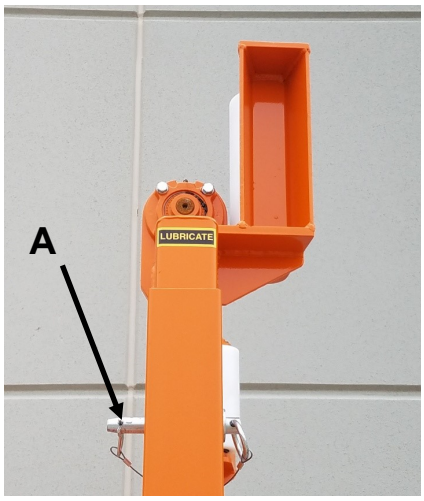

Figure 3: Fairlead Pin

SECTION “E”
OPERATIONS

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Figure 3	CHANGING THE PULLING REEL	E-3
Figure 4...5	FAIRLEAD	E-3

SECTION “E”
OPERATIONS

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 and that safety chains and lighting/brake pigtail are properly fastened to the tow vehicle. Check to see that the front jacks and all mechanical pin jacks are in the retracted position and locked. Any loose equipment or objects must be removed, tied down, or placed in a storage box, so not to become a hazard while the unit is being transported. Before leaving the yard, check brakes, running, turn and brake lights on the 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 (Fig. 1A).
2) Safety chain attached (Fig. 1B).
3) Breakaway switch attached (Fig. 1C).
4) Lighting pigtail attached (Fig. 1D).
5) Front jacks in up and locked position (Fig. 2A).
6) Any loose objects tied down or removed from the unit.
7) Check operation of brakes.
8) Check lighting (turning, running, and brakes) (Fig. 2B).
9) Tire condition and air pressure (Fig. 2C).

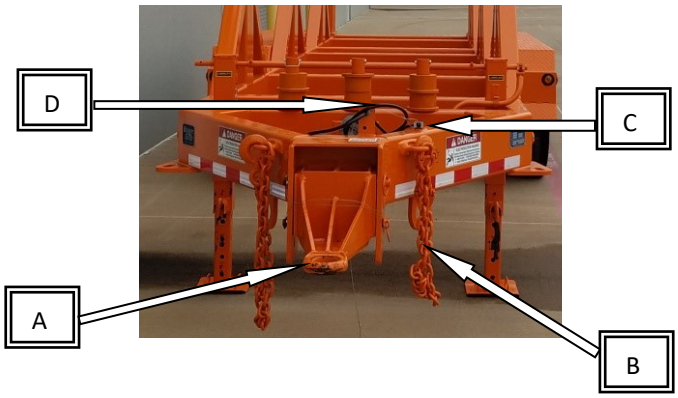

Figure 1: Pintle Hitch

Figure 2: Unit Overview

SECTION “E”
OPERATIONS

QUICK RELEASE 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 and reel are then removed from the unit by lifting straight up with a crane or boom truck. Installation is accomplished by reversing the above procedure.

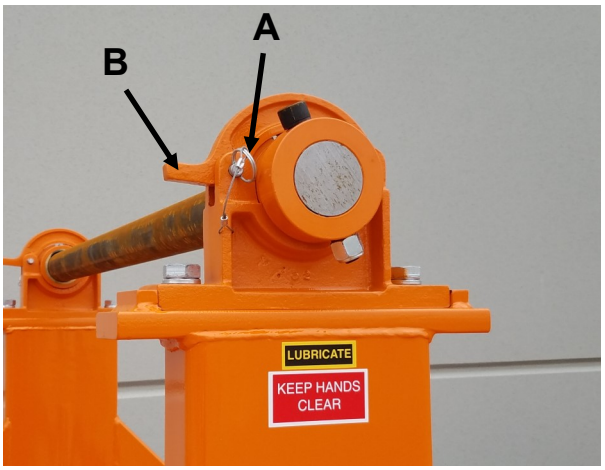

Figure 3: Spindle Bearing Lock

FAIRLEAD

The rear fairlead is adjustable vertically by a quick release pin (Fig. 3A) on both sides of the stand.

Figure 4: Fairlead Stand

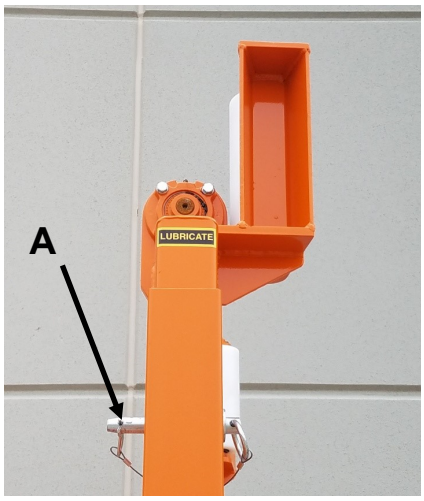

Figure 5: Fairlead Pin

SECTION “F”
ROUTINE MAINTENANCE

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SECTION “F”
ROUTINE MAINTENANCE

The Wagner-Smith Company Model T-3RC-90X52-30 is a trailer mounted, reel carrier unit that is designed to transport conductor reels up to 90 inches diameter and 52 inches wide and weight up to 10,000 pounds per reel. The reel spindles are 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.

It is suggested that a good periodic preventative maintenance schedule be followed in maintaining this unit.

Upon receipt, this unit should be checked for damage from shipping. In addition, the following checks listed in this section should be made.

SECTION “F”
ROUTINE MAINTENANCE

Daily Inspection Checklist:

1) Grease reel shaft bearings:
   - The amount of grease that the bearing will take for a particular application can only be determined by experience. If excess grease is applied to the bearing it will cause overheating. It will be necessary to remove the grease fitting to permit excess grease to escape. When establishing a lubrication schedule, note that a small amount of grease at frequent intervals is preferable to a large amount at infrequent intervals. **Use a No. 2 lithium base grease or equivalent.**
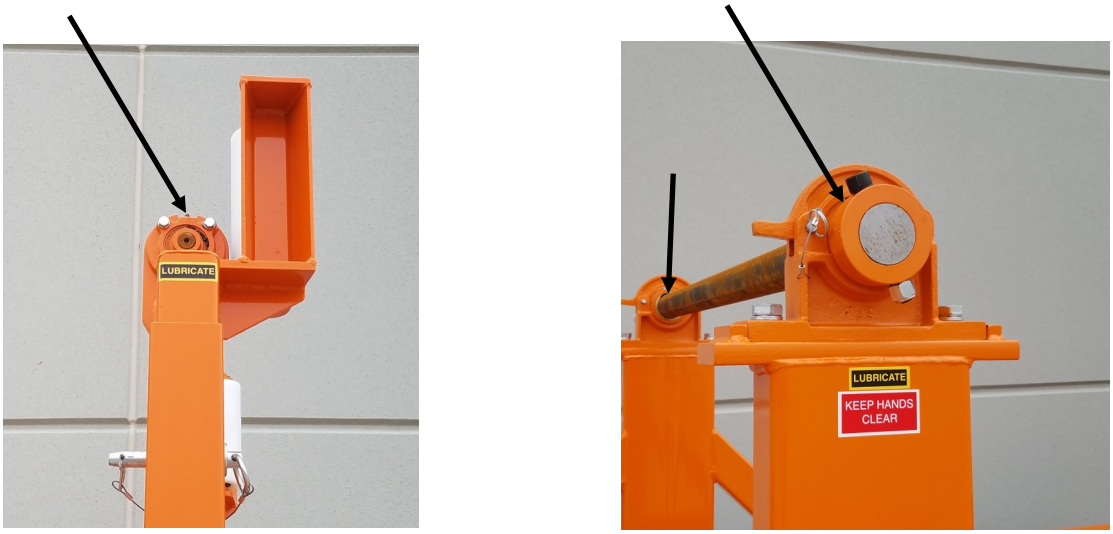
Figure 1: Spindle Bearing