Wagner-Smith

OPERATOR'S AND PARTS MANUAL FOR
THE WAGNER-SMITH EQUIPMENT COMPANY
MODEL SPM-4DP-13.5
SKID POLE MOUNT FOUR DRUM PULLER
CONTROL #
SERIAL #

Wagner-Smith Equipment
5701 Highpoint Pkwy
Burleson, TX 76028
USA

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

Revised: 10/18

OPERATOR'S MANUAL INDEX

SECTION A…….Hazard Warnings

SECTION B…….Introduction

SECTION C…….Specifications

SECTION D…….Description of Individual Functions

SECTION E…….Operations

SECTION F…….Routine Maintenance

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 practices or serve as a ten-sion/stringing operation procedures manual. This piece of equipment is designed for use in ten-sion/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 ten-sion/stringing operations.

FIG	DESCRIPTION	PAGE #
	SAFETY	A-2—5
	WARNINGS	A-5—6

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 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 Co.	

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

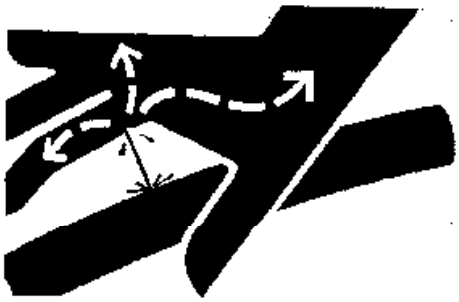
AVOID HIGH-PRESSURE FLUIDS

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

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 SPM-4DP-13.5 is a skid pole mounted, four drum type puller having a wide range of speed and pulling capabilities. Its four-drum design offers users increased productivity reducing the man-hours necessary for many stringing operations.

The unit is powered from a customer supplied auxiliary hydraulic system, such as a line truck or bucket truck.

The unit has a freewheeling feature which allows pulling line to be pulled out without having to power the unit.

The unit also has a back stop brake disc and caliper to prevent accidental payout of pulling line.

Both simple to operate and very easy to maintain, the model SPM-4DP-13.5 is another innovative Wagner-Smith product designed and developed to meet the changing needs of the powerline construction industry.

SECTION “C”
SPECIFICATIONS

FIG	DESCRIPTION	PAGE #
	SPECIFICATIONS	C – 2

SECTION "C"
SPECIFICATIONS

WAGNER-SMITH
MODEL SPM-4DP-13.5

FOUR DRUM
PULLER
SKID POLE MOUNTED

Specification No. 41014-10
Date 10/30/18, Page 1 of 2

UNIT PERFORMANCE
(based on 15 gpm @ 2,000 PSI)

	Empty Drum	Full Drum
Rated Line Pull	2,000 lbs.	780 lbs.
Max. Line Pull @3,000 inter.	3,000 lbs.	1,200 lbs.
Line Speed based on 15 gpm	0-215 ft/min.	0-540 ft/min.
Average Line Speed	378 ft/min.	

DRUMS & DIMENSIONS

Diameter	- 27"
Core Diameter	- 10-3/4"
Width Inside	- 23"
Net Weight (less rope)	- 2,151 lbs.
Dimensions	- 76" L x 65-3/4" W x 49" H

REEL CAPACITY

5/16" rope	- 8,500'
3/8" rope	- 6,000'
7/16" rope	- 4,500'
1/2" rope	- 3,500'

FEATURES

- Standard leadscrew levelwinder
- Free wheeling drums w/disc drag brakes
- Individual drum clutches
- Anti-rotation device w/caliper brake & disc on drive system
- Fine control manual caliper on drag brakes

SECTION “D”
DESCRIPTION OF INDIVIDUAL FUNCTIONS

FIG	DESCRIPTION	PAGE #
	REEL LOCK DEVICE	D – 2
	PAYOUT BRAKE ADJUSTING SCREW	D – 2
	HYDRAULIC MOTOR DISCONNECTS	D – 3
	BACKSTOP BRAKE ADJUSTING SCREW	D – 3
	LEVELWIND	D – 4

SECTION “D”
DESCRIPTION OF INDIVIDUAL FUNCTIONS

REEL LOCKING DEVICE

The reel locking device is used to engage and disengage the reel from the main drive. Disengage to freewheel drum for payout (Fig. 1).

Figure 1

PAYOUT BRAKE ADJUSTING SCREW

The payout brake adjusting screw is used to adjust the tension when using freewheeling drum payout. (Fig 2.)

Figure 2

SECTION “D”
DESCRIPTION OF INDIVIDUAL FUNCTIONS

HYDRAULIC MOTOR DISCONNECTS

The power source is connected here.

Figure 3

BACKSTOP

Backstop is to prevent accidental pay-out of pulling.

Figure 4

SECTION “D”
DESCRIPTION OF INDIVIDUAL FUNCTIONS

LEVELWIND

Automatically winds pulling line onto drum when pulling.

Figure 5

SECTION “E”
OPERATIONS

FIG	DESCRIPTION	PAGE #
	OPERATING INSTRUCTIONS	E – 2…3

SECTION “E”
OPERATIONS

OPERATING INSTRUCTIONS

Freewheeling payout of pulling line: For freewheeling payout of pulling line, disengage the reel drive plunger (Fig. 2) by pulling up the plunger and rotating it 90 degrees located on the drive hub of each individual reel. To re-engage plunger (Fig. 1) pull out plunger and rotate 90 degrees. The plunger can also be operated with a “hot stick”.

⚠ DANGER

DO NOT ENGAGE REEL DRIVE PIN WHEN PRIMARY DRIVE IS IN MOTION.

Figure 1

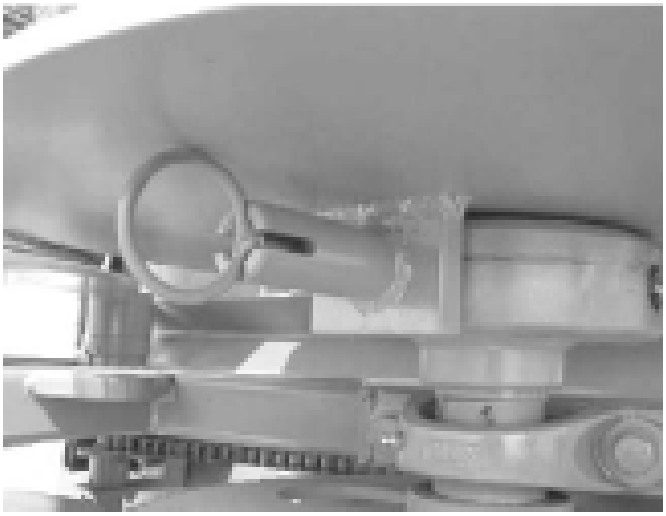


Figure 2

SECTION “E”
OPERATIONS

The unit is powered from an outside hydraulic power unit supplied by the customer. The power unit should be capable of supplying 20 gallons per minute at up to pressure of 2,000 PSI (Fig. 3)

Figure 3

The unit is equipped with a backstop. When pulling in line engage backstop plunger (Fig. 4) by pulling up on plunger and rotate 90 degrees to prevent accidental payout.

Figure 4

SECTION “F”
ROUTINE MAINTENANCE

FIG	DESCRIPTION	PAGE #
	DAILY INSPECTION	F – 2

SECTION “F”
ROUTINE MAINTENANCE

DAILY

A. Inspect for loose bolts, pins, etc.
B. Check all brake linings (Fig. 1)
C. Inspect drive chain for proper tension (Fig. 2). If chain is loose, tighten by adjusting idler sprocket.
D. Grease levelwind lead screw with a good quality multi-purpose grease. (Fig. 3)

Figure 1

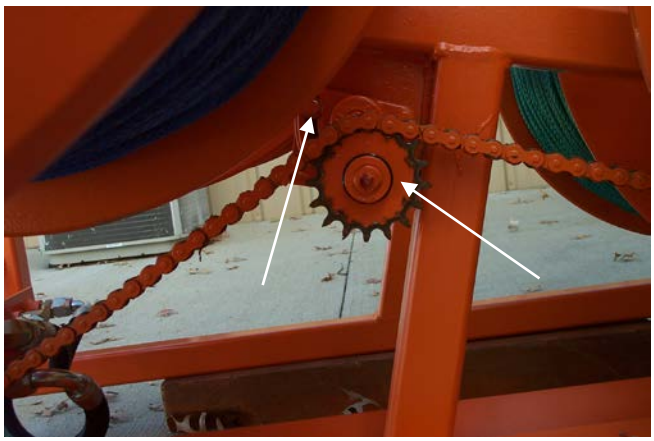


Figure 2

Figure 3