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MANUAL PREVIEW

White

Operator's Manual

2-115 & 4-115

Might Tow

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Operator's Manual

WH-O-2-115+

WHITE

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2-115/4-115 MIGHTY-TOW

MANUAL PREVIEW



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INTRODUCTION

This Operator's Manual is presented to furnish you with necessary information for operating and maintaining your WHITE CONSTRUCTION EQUIPMENT. Its primary purpose is to assist you in lubrication and adjustment for daily and seasonal operation. We especially wish to call your attention to many safety slogans listed in this manual. Although your equipment is designed with safety of operation in mind, possibilities of accidents cannot be completely eliminated until you understand and practice all safety precautions.

Timely service saves costly repairs and valuable time lost because of breakdowns. Whenever it becomes necessary to make REPAIRS or REPLACEMENTS, be sure to insist on GENUINE PARTS. These parts are designed specifically for your equipment under controlled specifications to give satisfaction and long lasting service to which you are entitled. YOUR DISTRIBUTOR CAN SUPPLY YOU WITH PARTS YOU REQUIRE. For additional information consult your distributor.

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SECTION I

SPECIFICATIONS

METRIC MEASURE

Following specifications are given in both U.S. and imperial measure. In countries where metric measure is used, convert from U.S. measure to metric measure through use of conversion factors. Below are some common factors used.

One U.S. qt. = 0.946 liters
One U.S. gal. = 3.78 liters
One lb. = 0.45 kilograms
One inch = 25.40 millimeters
One ft. = 0.30 meters

To convert U.S. measure to metric measure, multiply U.S. quantity by conversion factor. Examples of these calculations are outlined below.

Six U.S. qt. x 0.946 = 5.68 liters
Six lb. x 0.45 = 2.7 kilograms
Six in. x 25.40 = 152.4 millimeters
Six ft. x 0.30 = 1.80 meters

BELT PULLEY

	PTO Drive	
	540 rpm	1000 rpm
Width of Face	8"	8-3/4"
Pulley Diameter	11-5/8"	11-5/16"
Pulley Shaft Speed at Engine		
Speed of 2400 rpm	1033 rpm	1035 rpm
Belt Speed at Engine Speed of 2400 rpm	3100 fpm	3049 fpm

DRAWBAR ADJUSTMENTS

	Drawbar Type		
	Regular	Wide Swinging	Extra Heavy Duty Wide Swinging
Horizontal	26-1/4"	37-1/2"	35-1/2"
Vertical	2-7/8"	2-1/2"	10-1/2"
Length	6-1/8"	1-1/2"	2"

ENGINE

Number of Cylinders	4
Firing Order	1-3-4-2
Bore	3-7/8"
Stroke	4-1/2"
Piston Displacement	212.4 cu. in.
Engine Speed (rpm)	
Idle Speed	500
Rated	2400
High No-Load	2575
Engine Operating Temperature	155 to 212° F.
Valve Clearance Adjustment (cold)	
Intake	0.026"
Exhaust	0.026"
Engine Oil Pressure	30 psi or above
Horsepower	
Certified	105
Maximum Corrected Net Flywheel	115

SPECIFICATIONS

FOUR-WHEEL DRIVE FRONT AXLE LOAD CAPACITIES

*Maximum Capacity in Pounds

Agricultural	
66 inch tread	8500
70-3/4 inch tread	8200
80 inch tread	7400
Industrial	
66 inch tread (10 mph maximum)	11100
70-3/4 inch tread (10 mph maximum)	9500

*Weight of front wheels on ground. Do not exceed capacity of tires.

FOUR-WHEEL DRIVE TIRE RECOMMENDATIONS

It is important that ground speed of front tires matches that of rear tires when front axle is engaged. Excessive tire wear, reduced economy and loss of useful horsepower will result if tire combinations are mismatched. When replacing tires, consult dealer for proper size tires which will either best match loaded radius of worn tires remaining on tractor or which will best match a new tire size which application requires.

HYDRAULIC SYSTEMS

	DRAFT CONTROL AND/OR REMOTE, DEPTH-STOP, INTERNAL VALVE	HYDRA-ELECTRIC- STOP	REMOTE ONLY, DEPTH-STOP, EXTERNAL VALVE
Hydraulic Pump			
Capacity @ 2400 rpm	16.7 gpm	16.7 gpm	20.4 gpm
Capacity Available to System with Flow Divider	11.7 gpm	11.7 gpm	15.4 gpm
Pressure Relief Valve Setting	2050 psi	2050 psi	2100 psi
Flow Divider			
Capacity	5 gpm	5 gpm	5 gpm
Relief Valve Setting	1500 psi	1500 psi	1500 psi
Internal Cylinder			
Diameter	4 inches	4 inches	
Length of Piston Stroke	6 inches	6 inches	
Capacity @ Rocker Shaft	8600 ft-lbs	8600 ft-lbs	
Lifting Time @ 2400 rpm	1.8 sec.	1.8 sec.	
Safety Valve Setting	2300-2500 psi	2300-2500 psi	
Control Valve			
Detent Relief Pressure			1800-2000 psi
Thermal Relief Pressure	4400-5100 psi	4400-5100 psi	4500 psi ± 300 psi
Remote Cylinders			
Diameter	3-1/2 inches	3 or 4 inches	3-1/2 inches
Length of stroke	8 inches	8 inches	8 inches
Recommended Lifting Capacity	16150 lbs.	11600 or 21000 lbs.	16150 lbs.
Extension Time @ 2400 rpm	1.6 sec.	1.3 or 2.3 sec.	1.3 sec.

SPECIFICATIONS

POWER STEERING

Flow - Hydraulic Unit Flow Divider

Independent Pump

Operating Pressure - Hydraulic Unit Flow Divider or Independent Pump

4.5 to 5 gpm

5.7 gpm

1500 psi

POWER TAKE-OFF

	540 rpm	1000 rpm	Engine Speed
Shaft Speed at Engine Speed of 2400 rpm	549 rpm	984 rpm	2400 rpm
Shaft Rotation	Clockwise	Clockwise	Counterclockwise
Shaft Size	1-3/8"	1-3/8"	1-3/8"
Length of Spline	3"	2"	2"
Number of Splines	6	21	21

TRAVEL SPEEDS (AT 2400 RPM NEAREST 1/10 MPH)

ROW CROP — WHEATLAND — FOUR-WHEEL DRIVE 23.1-34 Tires — 31.5" Loaded Radius				WHEATLAND 23.1/18-30 Tires — 30.0 Loaded Radius		
Regular Transmission				Regular Transmission		
Gear	Direct	Creeper	Hydra-Power	Direct	Creeper	Hydra-Power
1	1.8	0.6	1.3	1.7	0.6	1.2
2	3.3	1.1	2.4	3.1	1.1	2.3
3	4.4	*	3.2	4.2	*	3.1
4	5.8	2.0	4.2	5.5	1.9	4.1
5	8.2	*	5.9	7.8	*	5.7
6	14.4	*	10.5	13.7	*	10.0
R1	2.1	0.7	1.6	2.0	0.7	1.5
R2	5.3	*	3.9	5.1	*	3.7
High Speed Transmission — All speeds same as regular transmission except as follows:						
4	7.6	2.6	5.6	7.2	2.5	5.3
6	18.8	*	13.8	17.9	*	13.1

*Speeds blocked out.

INDUSTRIAL

18.00-26 Tires — 27.7" Loaded Radius			
Regular Transmission			
Gear	Direct	Creeper	Hydra-Power
1	1.6	0.5	1.1
2	2.9	1.0	2.1
3	3.9	*	2.8
4	5.1	1.7	3.7
5	7.2	*	5.3
6	12.6	*	9.3
R1	1.9	0.6	1.4
R2	4.7	*	3.4

High speed transmission — All speeds same as regular transmission except as follows:

4	6.7	2.3	4.9
6	16.5	5.7	12.1

*Speeds blocked out.