



White
Operator's Manual
4-150
Field Boss

Operator's Manual

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MANUAL PREVIEW



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INTRODUCTION

This Operator's Manual is presented to furnish you with necessary information for operating and maintaining your tractor. Its primary purpose is to assist you in lubricating and adjusting the tractor for daily and seasonal operation. We especially wish to call your attention to the many safety slogans listed in this manual. Although your tractor is designed with the 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 on your tractor, be sure to insist on GENUINE WHITE FARM EQUIPMENT COMPANY PARTS. These parts are designed specifically for your tractor under controlled specifications to give satisfaction and long lasting service to which you are entitled. YOUR DEALER CAN SUPPLY YOU WITH PARTS YOU REQUIRE. For additional information consult your dealer.

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CLICK ANYWHERE FOR MORE DETAILS

SPECIFICATIONS

TRACTOR DIMENSIONS WITH 18.4-38 TIRES (APPROXIMATE INCHES) (Continued)

Wheel Base	115-5/8
Wheel Treads	
With Standard Axle and Steel Wheels	60-84
With Standard Axle and Cast Wheels	60-96
With Optional Axle and Cast Wheels	60-108
Turning Radius (Min.)	190
Axle Oscillation (15° from Horizontal in Both Directions)	30°
Frame Articulation (42° from Center in Both Directions)	84°
Weight	
W/Three-Point Hitch, PTO and Pressed Steel Wheels	14,500 lbs.
Maximum Allowable Gross	20,000 lbs.

DRAWBAR ADJUSTMENT AT HITCH POINT (IN INCHES)

Regular Drawbar	
Horizontal (at maximum length)	26-1/4
Length	6-1/8
Wide Swinging Drawbar	
Horizontal	37-1/2
Length	1-1/2

IGNITION AND ELECTRICAL - 12 VOLT SYSTEM

Battery	
Number	2 (12 Volt in Parallel)
Capacity	95 ampere hrs. (each)
AABM/BCI Group No.	30H
Floodlights (4) and Headlights (2)	
Type	Sealed Beam
Size	35 watts
Capacity	12-16 volts
Taillight (2)	
Type	Sealed Beam
Size	4 Candle power
Capacity	12-16 volts
Turn Signals/Warning Lights (2)	
Type	Bayonet
Size	32 Candle power
Capacity	12-16 volts

IGNITION AND ELECTRICAL - 12 VOLT SYSTEM (Continued)

Instrument Background Lights and Indicator Lights	
Type	Bayonet
Size	2 Candle power
Capacity	12-16 volts
Fuses	
Lights	20 ampere
Instruments	10 ampere
Cab Accessories	
Blower	30 ampere
Clutch	6 ampere
Dome	6 ampere

POWER TAKE-OFF

	1000 rpm	Engine Speed
Shaft Speed at Engine		
Speed of 2800 rpm	1022 rpm	2800 rpm
Shaft Rotation	Clockwise	Counterclockwise
Shaft Size	1-3/8 in.	1-3/8 in.
Length of Spline	2-3/4 in.	2-3/4 in.
Number of Splines	21	21

HYDRAULIC SYSTEM

Hydraulic Pump	
Capacity @ 2800 rpm	20 gpm
System Pressure Setting	2250 psi
Relief Valve Setting	2500 psi
External Cylinders (Category III)	
Number	2
Diameter	3 in.
Length of Piston Stroke	8 in.
Lifting Time @ 2800 rpm	1.5 sec.
Lift Capacity (24" beyond hitch points)	6,000 lbs.
Hitch Safety Valve Setting	2600 ⁺ 60 psi
Control Valve	
Detent Relief Pressure	2100-2200 psi
Thermal Relief Pressure	3500-5000 psi
Remote Cylinders	
Diameter	3-1/2 in.
Length of Stroke	8 in.
Recommended Lifting Capacity	18,400 lbs.
Extension Time @ 2800 rpm	1.0 sec.

LUBRICATION

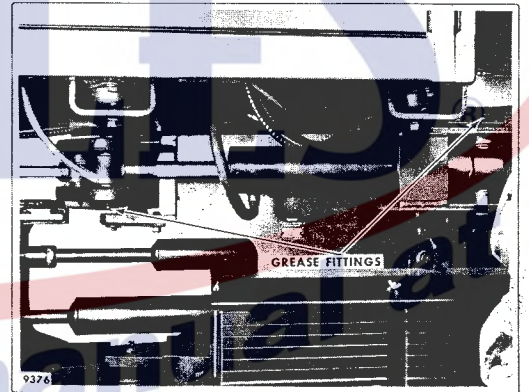
PARALLEL LINK JOINTS

Lubricate left and right parallel link joints every 50 hours of operation with pressure gun using multi-purpose grease.



STEERING CYLINDER PINS

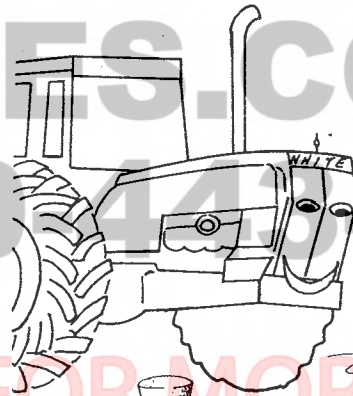
Lubricate steering cylinder pins daily or every 10 hours of operation with pressure gun using multi-purpose grease.



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LUBRICATION
+ MAINTENANCE
= TOP PERFORMANCE

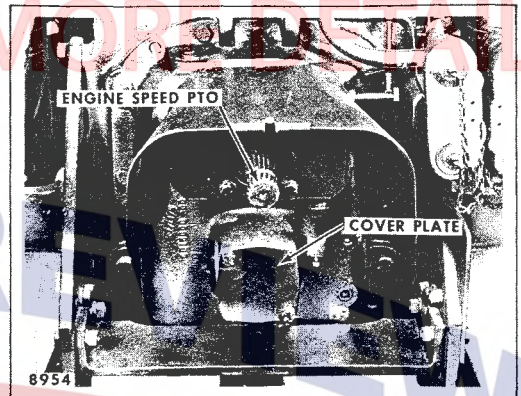


OPERATION

POWER TAKE-OFF

Engine Speed PTO Installation

Tractor is equipped with 1000 rpm PTO unit. Engine speed PTO operations may be performed by removing cover plate from upper outlet in PTO housing and installing 1000 rpm shaft assembly from lower outlet. Cover lower shaft outlet to prevent entry of dirt and foreign material. **DO NOT ATTEMPT TO PERFORM 540 or 1000 RPM PTO OPERATIONS FROM UPPER OUTLET; ENGINE SPEED PTO RUNS IN OPPOSITE DIRECTION OF NORMAL PTO ROTATION. DO NOT ATTEMPT TO PERFORM ENGINE SPEED PTO OPERATIONS USING 540 RPM SHAFT ASSEMBLY.** Control operation of unit with PTO control lever as outlined in PTO operation discussion. Remove shaft and housing assembly when not in use and reinstall cover plate.



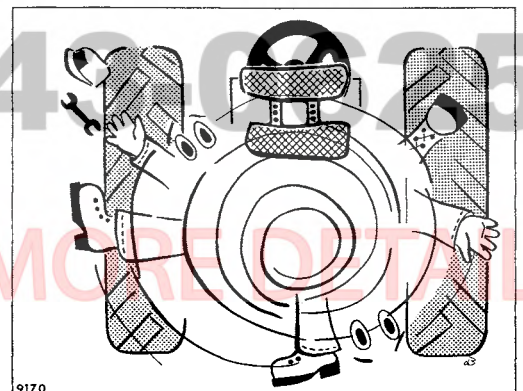
WARNING! DO NOT CONNECT, DISCONNECT OR ADJUST PTO WITH ENGINE RUNNING.

Safety Shield and Operation Precautions

Several safety measures must be observed to prevent personal injury and to avoid implement damage. A master protective shield is installed over PTO shaft and serves as PTO shaft retainer. Keep shield in place at all times. Check for proper synchronization of power lines incorporating two or more universal joints; **UNIVERSAL JOINT YOKES ON INTERMEDIATE SHAFTS MUST BE IN SAME PLANE.** If a series of at least three universal joints is used, adjust power line support or pivot arm to provide straightest power line possible. Be sure telescoping shaft on implement is clean and slides easily, and be careful not to bottom or exceed contracted limits of joint when performing drawn type operations. **ALWAYS DISENGAGE PTO CLUTCH TO MAKE TURNS GREATER THAN 25 DEGREES.** Regular type PTO telescoping shafts bind and will not telescope under high load conditions, such as operating heavy duty equipment over rough terrain, while turning and during continuous operation. This imposes extreme shock loads on PTO and PTO drive line. To permit shaft to telescope freely, PTO drive line should be equipped with **LOW-FRICTION TELESCOPING SHAFT.** When performing stationary PTO operations be sure to install articulation lock as described later in this section.



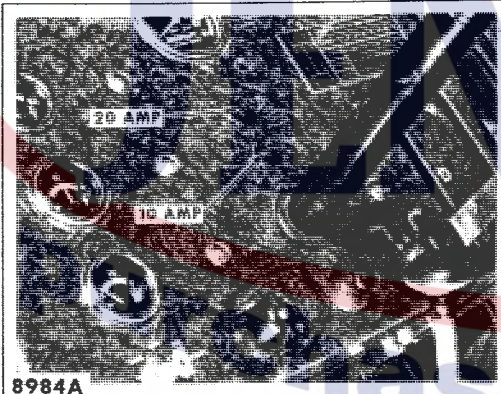
WARNING! A PROTECTIVE SHIELD IS INSTALLED OVER PTO SHAFT. KEEP SHIELD IN PLACE AT ALL TIMES. ALWAYS DISENGAGE POWER TAKE-OFF BEFORE DISMOUNTING TRACTOR.





WARNING BUZZER

If warning buzzer does not sound and glow red with ignition on and engine not running, problem may exist in buzzer, oil pressure sending unit, water temperature sending unit or electrical wiring. Before operating tractor locate and correct problem.

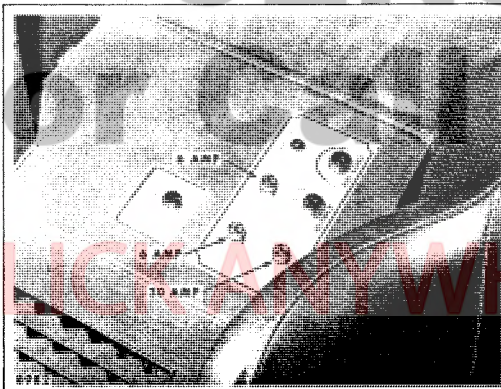


FUSES

Tractor Instrument Panel

Check 10 ampere fuse if windshield wiper or instruments are inoperative.

Check 20 ampere fuse if lighting system is inoperative.



Cab Accessory Instrument Panel

Check 30 ampere fuse if blower is inoperative.

Check 6 ampere dome light fuse if dome light is inoperative.

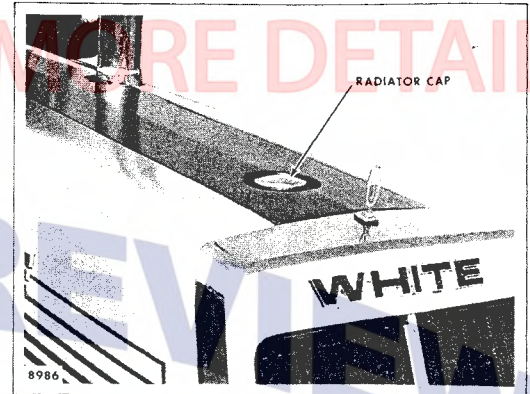
Check 6 ampere compressor clutch fuse if compressor is inoperative.

NOTE: IF A FUSE IS BURNED OUT, CHECK ELECTRICAL WIRING FOR SHORT CIRCUIT BEFORE INSTALLING NEW FUSE.

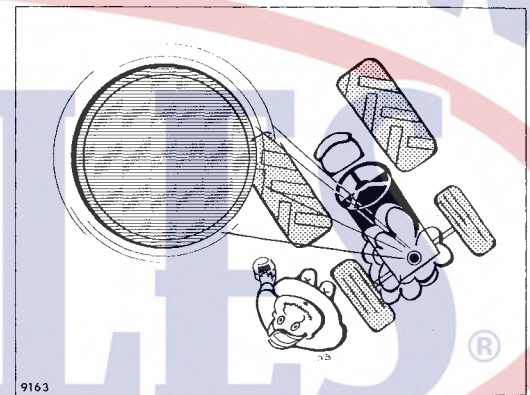
COOLING SYSTEM

Checking Coolant

Check coolant level in radiator daily and maintain it above Low level indicator in filler neck. Loosen radiator cap 1/4-turn to release pressure before removing cap. Use soft water or soft water and permanent type antifreeze as coolant. Add 1/2-pint of rust inhibitor, such as Caterpillar Nal Cool 2000 or equivalent, to prevent rust formation when soft water is used alone.

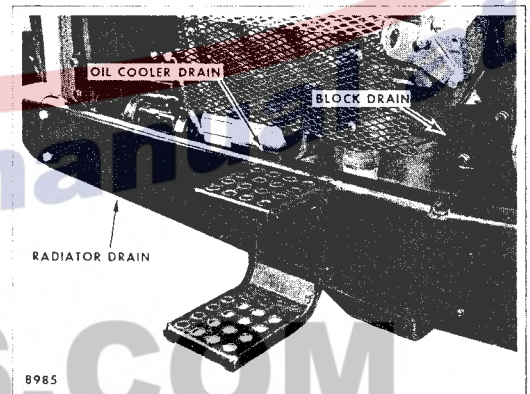


WARNING! RELIEVE PRESSURE IN COOLING SYSTEM BY TURNING RADIATOR CAP TO ITS FIRST STOP BEFORE REMOVING CAP.



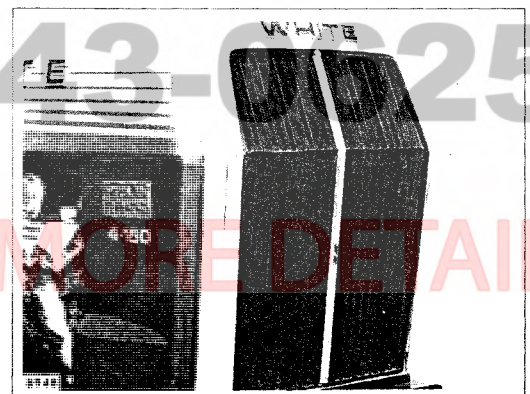
Draining Coolant

Drain and flush system with clean soft water every spring and fall. To drain complete system, remove radiator cap and open radiator drain valve. Remove drain plugs from engine block, thermostat housing and on bottom of engine oil cooler. Install new radiator hoses each fall prior to installation of antifreeze. Antifreeze solution must be installed in tractors equipped with a coolant heater or cab heater because protection from freezing cannot be ensured by draining system. **DO NOT USE ALCOHOL ANTIFREEZE AND NEVER OPERATE ENGINE WITH THERMOSTAT REMOVED.**



Radiator Screen

Clean radiator grill screen whenever inspection reveals need.



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SAFETY GOES

A

LONG WAY