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Minneapolis Moline

Service Manual

A4T-1600

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MM-S-A4T-1600

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MANUAL PREVIEW

OPERATOR'S MANUAL

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THIS MANUAL COVERS THE OPERATOR'S INFORMATION PLUS THE TECHNICAL SERVICE DATA FOR THE OLIVER MODELS 2155 AND 2655 IN ADDITION TO THE MINNEAPOLIS MOLINE MODEL A4T 1600 . THESE TWO TRACTORS ARE ESSENTIALLY THE SAME EXCEPT FOR PAINT. BOTH MFG'D BY WHITE CO.

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White Farm Equipment Company
WHITE MOTOR CORPORATION

CAPACITIES (U.S. Measure)

Cooling System (LP Gas).....	32	quarts
Cooling System (Diesel).....	37	quarts
Crankcase w/o Filter		
LP Gas.....	13	quarts
Diesel.....	14	quarts
Crankcase w/Filter		
LP Gas.....	15	quarts
Diesel.....	16	quarts
Fuel Tank (LP Gas -.80% full).....	90	gallons
Fuel Tank (Diesel).....	100	gallons
Transmission.....	4-1/2	gallons
Differential.....	each 15	gallons
Drop Box.....	2-1/2	gallons
Hydraulic System.....	9	gallons

SPEEDS (MPH AT RATED ENGINE RPM AND 18.4-38 OR 24.5-32 TIRES)

Gear:	LO	HI
1st.....	2.2	4.3
2nd.....	3.4	6.5
3rd.....	4.5	8.7
4th.....	5.5	10.6
5th.....	12.3	23.7
Reverse.....	3.4	6.5

HYDRAULIC SYSTEMS

Power Steering Pump Capacity (@ rated engine speed).....	12	GPM
Power Steering Relief Pressure.....	2000	PSI
Steering Cylinders.....	3" bore, 14" stroke	
Steering Angle (each direction).....	44	degrees
Lift System Pump Capacity (@ rated engine speed)		
Type "G" (Webster Pump).....	21	GPM
Three Point Hitch (Vickers Pump).....	Variable to 20	GPM
Type "G" System Relief Pressure.....	1750	PSI
Three Point Lift Relief Pressure.....	2000	PSI

MISCELLANEOUS BOLT TORQUES (FT. LBS.)

Cylinder Head Bolts		
LP Gas (504B-6).....	170-175	
Diesel (D585-6).....	170-175	
Connecting Rod Bolts		
LP Gas.....	70-75	
Diesel.....	80	
Main Bearing Bolts	LP Gas	Diesel
5/8 inch.....	140	108-112
3/4 inch.....	240	196-204
Injector Clamp Bolt (Diesel).....	20	
Spark Plugs (LP Gas).....	See Manual	
Wheel Bolts		
Rim Clamps.....	110	
Wheel Center.....	200	
Axle Clamps (Standard hubs).....	600	
Taper Lock Hubs.....	200	

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Fig. 7

1. Transmission oil level cap
2. Throwout bearing
3. Fork shaft (also fitting on opposite side)

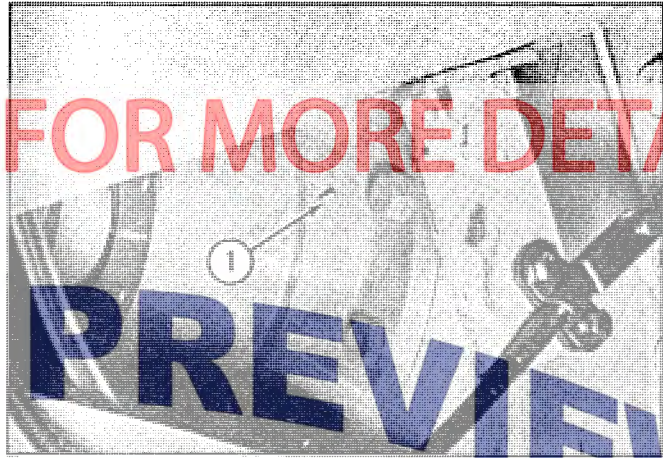


Fig. 9

1. Oil level plug



Fig. 8

1. Transmission filler plug

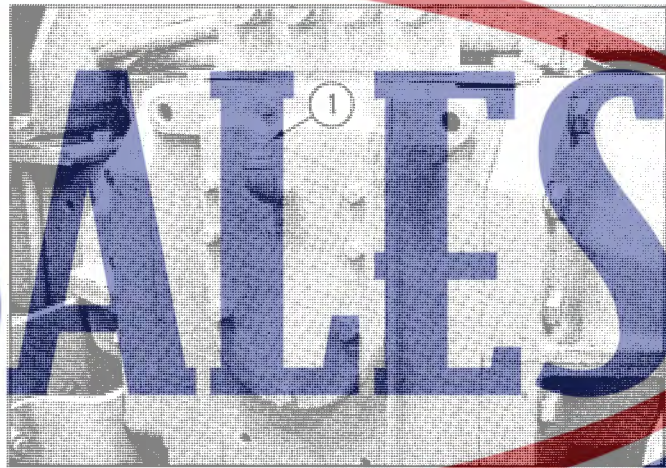


Fig. 10

1. Filler plug

Drain and flush the transmission every 1000 hours, or once annually. Drain after the oil is thoroughly warmed up. The drain plug is located on the bottom of the portion of the drop box that is bolted to the transmission case. The refill capacity of the transmission is approximately 4-1/2 U.S. gallons.

DIFFERENTIALS

Maintain the oil level in the rear differential compartment at the level plug shown in Fig. 9. The filler plug for the rear differential on tractors without PTO or three point hitch is shown in Fig. 10. On tractors with PTO or 3 point hitch, the filler plug for the rear differential is located on top of the case near the rear. Fig. 11. Use only the recommended Combination Transmission-Differential fluid in the differential compartments.

Service the front differential in the same manner. The filler plug is located on the cover and the level plug is located at the right rear corner of the front differential case.



Fig. 11

1. Filler plug in top of case (not shown)
2. Breather on top of case (not shown)

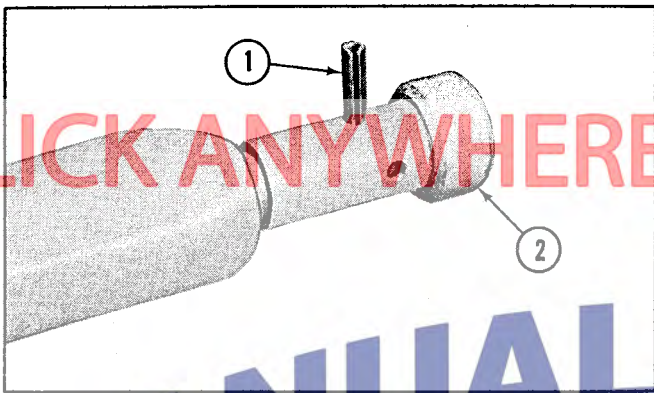


Fig. 42

1. Roll pin
2. Hitch pin adapter

REMOTE CYLINDERS AND CONTROLS

The tractor may be equipped with 1, 2 or 3 control valves for the operation of remote cylinders. Fig. 43 shows the Type "G" hydraulic system control levers for a 2-valve system. The couplers are shown in Fig. 44.

IMPORTANT: SINGLE ACTING REMOTE CYLINDERS CANNOT BE USED WITH THE TYPE "G" HYDRAULIC SYSTEM.

The outer lever controls the oil flow to the right hand couplers. On a two valve installation, the inner lever controls the oil flow to the left hand couplers. If a third auxiliary valve is installed, the inner lever controls the oil flow to the center set of couplers.

IMPORTANT: THE HYDRAULIC SYSTEM ON TRACTORS WITH 3-POINT HITCH DEVELOPS 2000 PSI, SO USE REMOTE CYLINDERS OF 2500 TO 3000 PSI CAPACITY AND HYDRAULIC HOSES DESIGNATED AS SAE 100R2.



Fig. 43

1. Control levers (Type "G" system)

If tractor has a hydraulic system for operation of remote cylinders only (no 3-point hitch), the control levers for operation of the remote cylinders will automatically return to neutral when the piston in the cylinder reaches the end of its stroke. **DO NOT HOLD CONTROL LEVER IN DETENT POSITION AFTER PISTON IN CYLINDER REACHES END OF STROKE.**

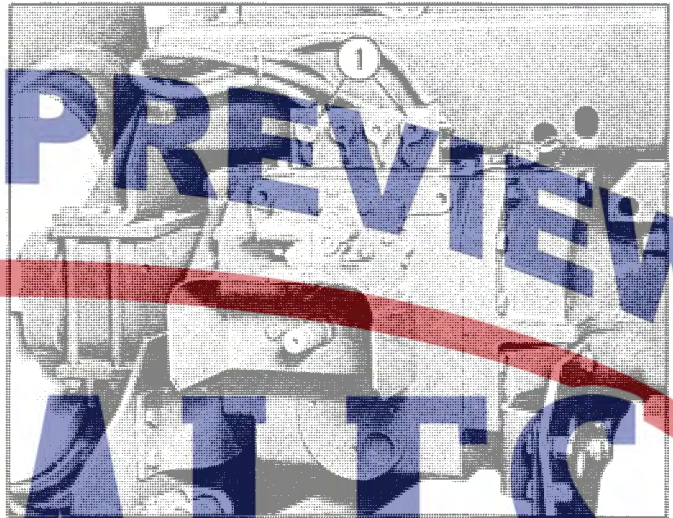


Fig. 44

1. Remote cylinder couplers

The control levers for the remote cylinders on tractors equipped with a 3-point hitch will not return to neutral, or is it necessary to return the lever to neutral when the piston in the cylinder reaches the end of its stroke.

The couplings are the breakaway type, and will disconnect automatically should the implement accidentally become detached. The couplings can be coupled and uncoupled under pressure, but we recommend shutting off the engine and moving the remote lever to release the pressure. In this manner, less oil is lost and less dirt enters the system. Push the male fitting firmly in place into the couplings. A firm tug on the hose will disconnect the coupling.

Attach the hydraulic hoses to the couplers so the remote cylinders will extend when the control lever is moved to the rear. Always install remote cylinders on the implement so the base end is attached to the stationary anchor. Check the hydraulic system oil level after the remote cylinders are connected. Add oil if necessary.

When the remote cylinders are disconnected from the couplers, install the dust caps to prevent the entry of foreign material.

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