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MANUAL PREVIEW

Minneapolis Moline

Operator's Manual

G1050

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Operator's Manual

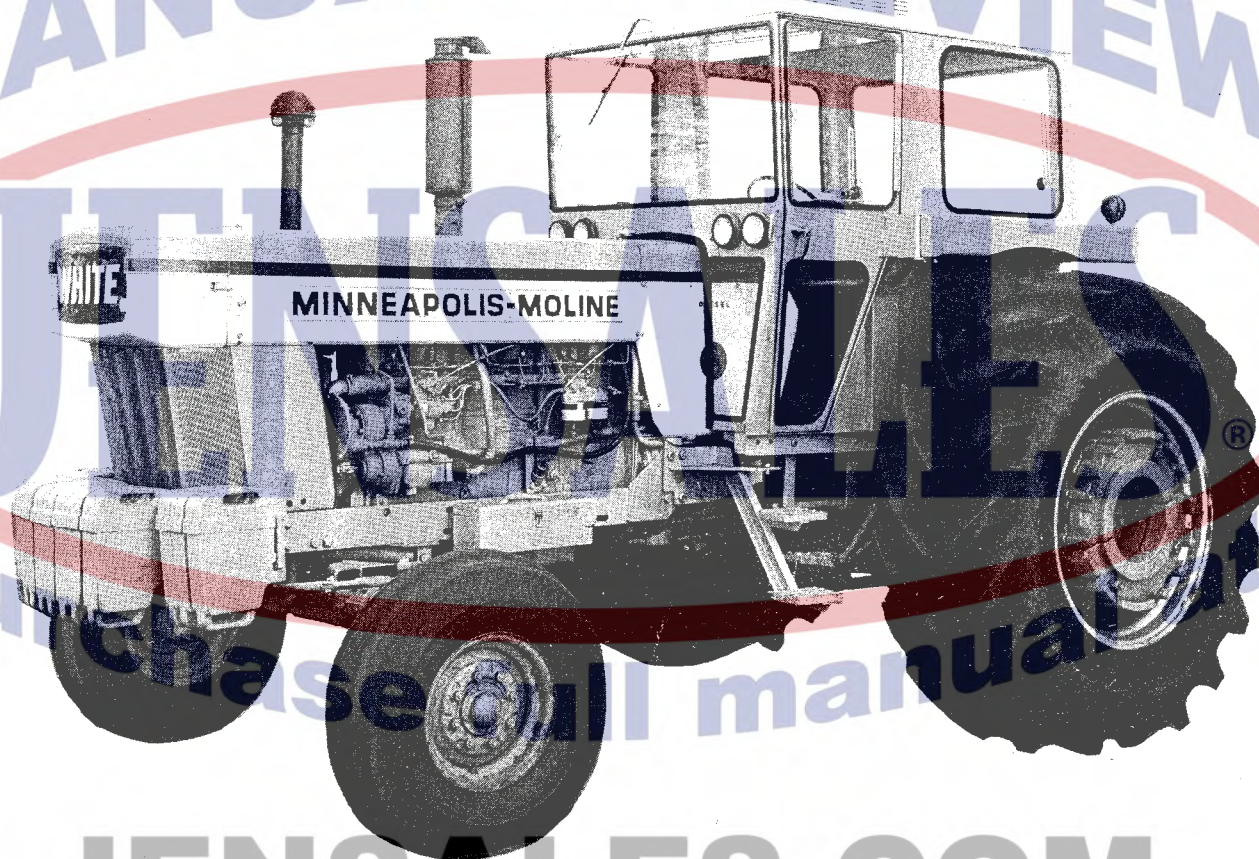
MM-O-G1050

S-574

OPERATOR'S MANUAL

MM

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G1050 TRACTORS

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MM

World's Finest Tractors



MINNEAPOLIS-MOLINE, INC., Hopkins, Minnesota • A Subsidiary of WHITE MOTOR CORPORATION

SPECIFICATIONS

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ENGINE

Type	6 cylinder, valve-in-head
Bore and Stroke	4-5/8" x 5
Piston Displacement - cu. in.	504
Compression Ratio	
Cylinder head 10A4231 (LP Gas)	8.1 to 1
Cylinder head 10A4232 (LP Gas)	9.1 to 1
Cylinder head 10A4233 (LP Gas)	10.4 to 1
Cylinder head 10A29559 (Diesel)	15.2 to 1
Firing Order	1-5-3-6-2-4
Normal Idle Speed	600 RPM
Normal Full-Load Governed Speed	1800 RPM
Normal No-Load Governed Speed	
Diesel	1950 RPM
LP Gas	2050 RPM
Oil Pressure @ 1800 RPM	40-45 PSI
Exhaust Valve Clearance (Cold)	
LP Gas	.028"
Diesel	.022"
Intake Valve Clearance (Cold)	
LP Gas	.012"
Diesel	.015"
Spark Plug Gap (LP Gas)	.015"
Distributor Point Gap (LP Gas)	.018-.024"
Distributor Dwell Angle	31-37°
Distributor Timing (LP Gas)	
Cylinder head 10A4232 (To 4000' - HD5 fuel)	15° BTC @ 1500 RPM
Cylinder head 10A4233 (Above 4000' - HD5 fuel)	10° BTC @ 1500 RPM
Cylinder head 10A4231 (Low octane fuel)	15° BTC @ 1500 RPM
Diesel Injection Pump Timing (Static)	2° BTDC
Cylinder Head Bolt Torque	
LP Gas (all nuts)	170-175 ft. lbs.
Diesel - 9/16" studs	130-135 ft. lbs.
Diesel - 5/8" studs	170-175 ft. lbs.

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CRANKCASE VENTILATOR VALVE (LP GAS)

Remove, disassemble, and clean the ventilator valve every 250 hours of operation. Varnish remover is the most satisfactory cleaning agent for cleaning the valve. Be sure arrow on vent valve body is pointing toward intake manifold when it is reinstalled.

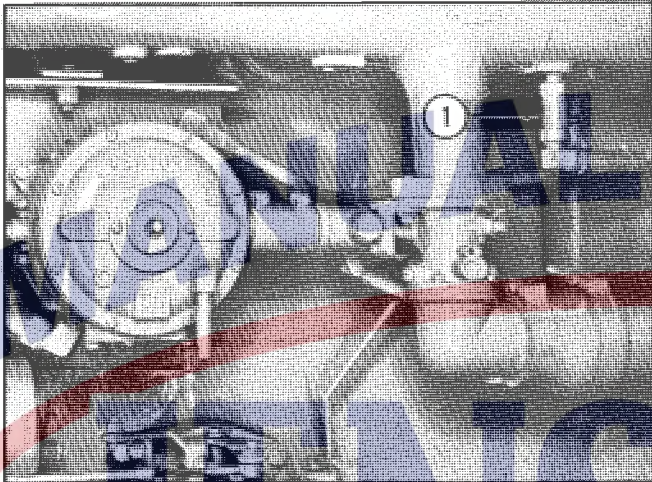


Fig. 6

1. Crankcase vent valve (LP Gas)

Engines that operate on diesel fuel do not have an external crankcase ventilator system as do LP Gas engines. The ventilator tubes are located under the two rear rocker arm covers. Fumes from the engine are admitted to the intake manifold through ports in the cylinder head. No service is required on the diesel crankcase vent system.

DISTRIBUTOR (LP GAS)

Apply a trace of high-quality ball-bearing lubricant to the breaker cam every 300 hours of operation. Also place two drops of light engine oil on the felt wick under the rotor. Avoid excessive lubrication. If too much oil is used, the excess is apt to get on the contact points and cause them to burn.

TRANSMISSION, DIFFERENTIAL, AMPLI-TORC

The transmission, differential, and ampli-torc compartments use a common oil system. The oil is circulated by a pump at the rear of the tractor and is cooled by an auxiliary cooler in front of the radiator.

Maintain the oil for the transmission, differential, and 2-speed ampli-torc at the level plug shown in Fig. 7.



Fig. 7

1. Transmission-differential oil level (2 speed)

If the tractor is equipped with a 3-speed ampli-torc, maintain the oil level for the transmission-differential at the cap on the tee shown in Fig. 8. Fig. 8 shows the battery removed to better illustrate the oil level cap.

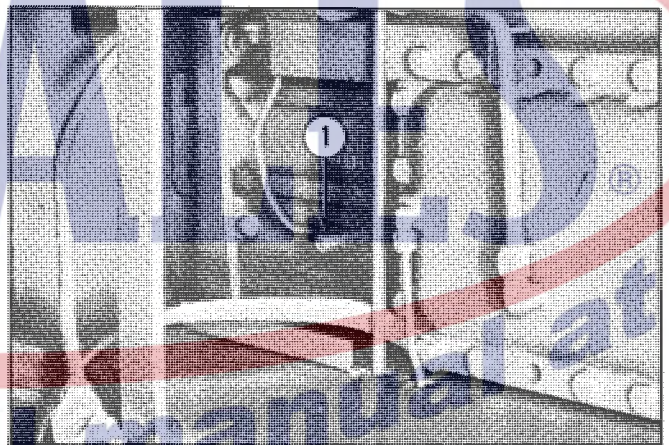


Fig. 8

1. Transmission-differential oil level (3 speed)

The filler plug for all compartments is located in the shifting cover as shown in Fig. 9. When adding oil to the compartments, allow time for the oil to flow into the differential case before checking the level.

Use only Minneapolis-Moline Combination Transmission-Differential fluid in the compartments. Use care not to allow any foreign material to enter the oil compartments.

Minneapolis-Moline Combination Transmission-Differential fluid is available under the following part numbers:

10R1304.....	Case of 6 gallons
10P3731.....	5 Gallon can
10P3732.....	55 Gallon drum



Fig. 9

1. Filler plug
2. 2-Speed ampli-torc compartment drain plug

Drain all compartments every 1000 hours of operation, or once annually, whichever comes first. Drain oil after tractor has been in operation so oil is thoroughly warmed up. The transmission and differential will drain through the plug opening in the bottom of the differential case. The ampli-torc compartment (2-speed or 3-speed) has a separate drain plug. See Figs. 9 and 11.

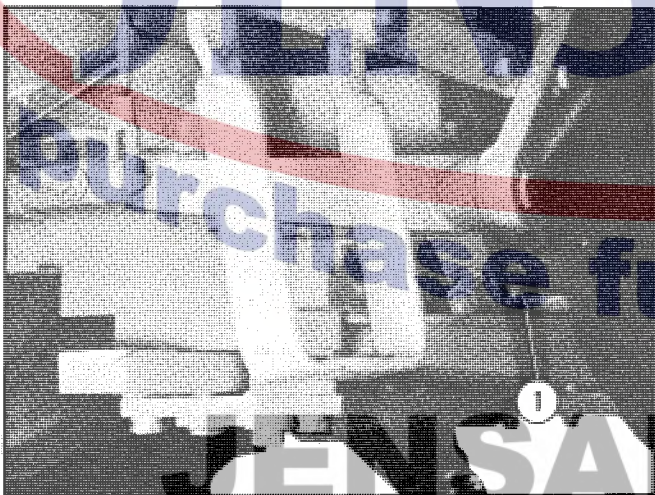


Fig. 10

1. Transmission-differential drain plug

Flush the compartments with several gallons of clean kerosene or diesel fuel. Allow flushing agent to drain thoroughly before refilling compartments. Be sure all drain plugs are re-installed and securely tightened. Capacity of compartments is approximately 22 gallons.



Fig. 11

1. 3-Speed ampli-torc compartment drain plug

Fig. 12 shows the filter for the 3-speed ampli-torc. Tractors with 2-speed ampli-torc do not have an oil filter. Change filter cartridge for 3-speed ampli-torc after the first 10 hours of operation and thereafter every 300 hours of operation.

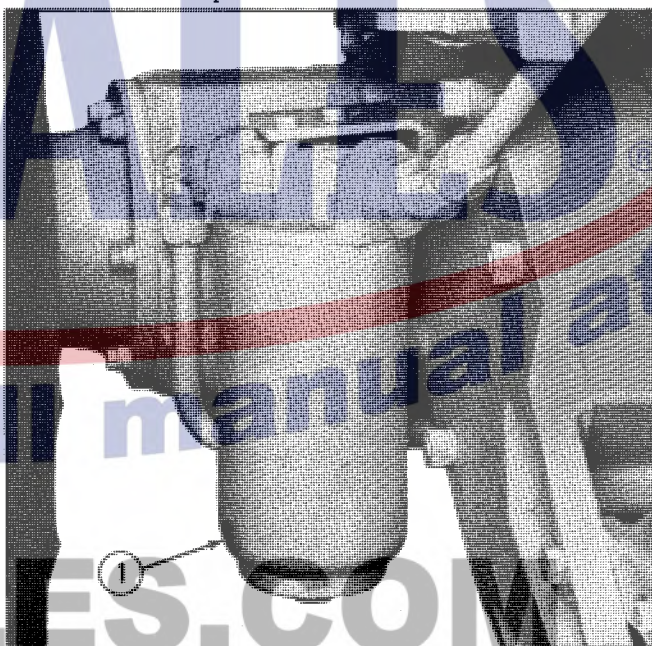


Fig. 12

1. Oil filter used with 3-speed ampli-torc only

Fig. 13 shows the transmission-differential breather. The element in the breather will last almost indefinitely under normal operating conditions. Remove and clean element every 300 hours of operation. Wash the element in solvent and apply compressed air to dry.

The capacity of the hydraulic reservoir is approximately 9 U.S. gallons. Be sure drain plug in reservoir and cap in line drain are reinstalled and securely tightened.

To prevent the entry of foreign material when adding hydraulic fluid, or refilling reservoir, pour the fluid through a micron filter. If a filter is not available, use a fine wire screen. Fill reservoir to "F" mark on dipstick.

Air must be purged from the system after a filter change or when the oil is drained. Make up a hose like the one shown in Fig. 16 and connect it to one set of remote couplers. Start the engine and operate it at 1500 rpm. If oil is cold, run engine at slow speed to allow the oil to warm up.

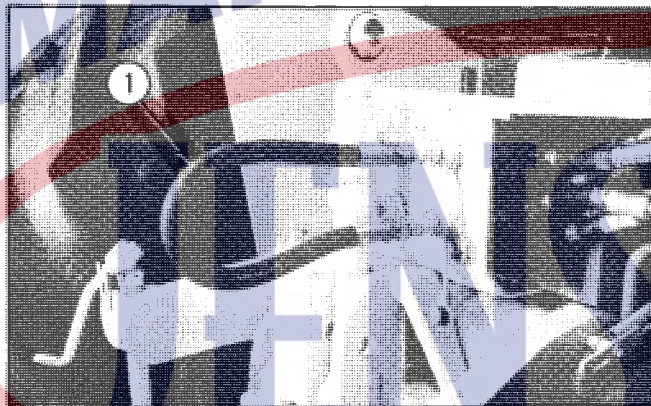


Fig. 16

1. By-pass hose

With the engine operating at 1500 rpm, place the "remote" control lever in position to direct oil through the by-pass hose. Operate the engine for 2 minutes, raising and lowering the hitch and rotating the steering wheel from one stop position to the other while purging system through the by-pass hose. Recheck the fluid level after purging the system.



Fig. 17

1. Plugs in valve housing

If the system is noisy after purging through the by-pass hose, shut off the engine and remove the console cover. Remove the 1/16" plugs from the top of the valve (Fig. 17) and fill the cavities with clean hydraulic fluid to remove air from each end of the flow control spool. Reinstall the plugs, tightening them securely.

FRONT AXLE

Service the fittings on the front axle and steering linkage with chassis lubricant every 20 hours of operation. Grease fittings can be found in the following locations:

Spindle housings.....	4
Tie rod ends.....	4
Steering cylinder.....	2
Axle support.....	1
Reach support.....	1
Steer shaft bearings.....	1



Fig. 18

THREE POINT HITCH

Service the fittings (12) on the three point hitch with chassis lubricant every 20 hours of operation. If the tractor is equipped with a roller mounted drawbar, service the fittings every 20 hours.

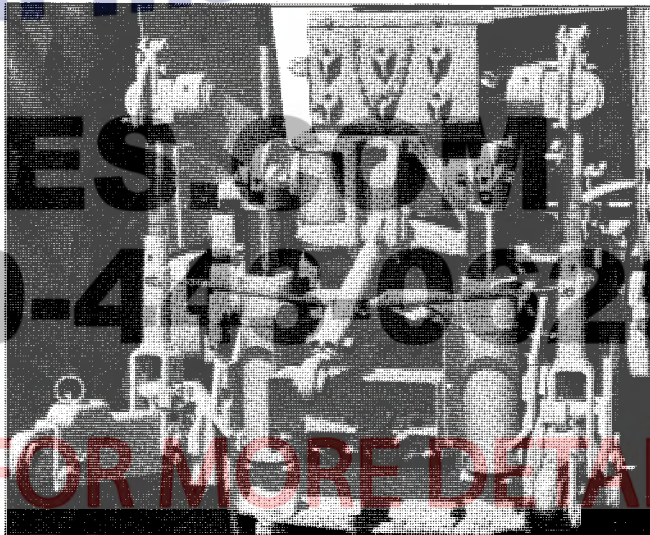


Fig. 19