



**Massey Harris
Massey Ferguson
Operator's Manual
MF Super 90,
90 Wheatland & Rice
LP Gas**

Operator's Manual

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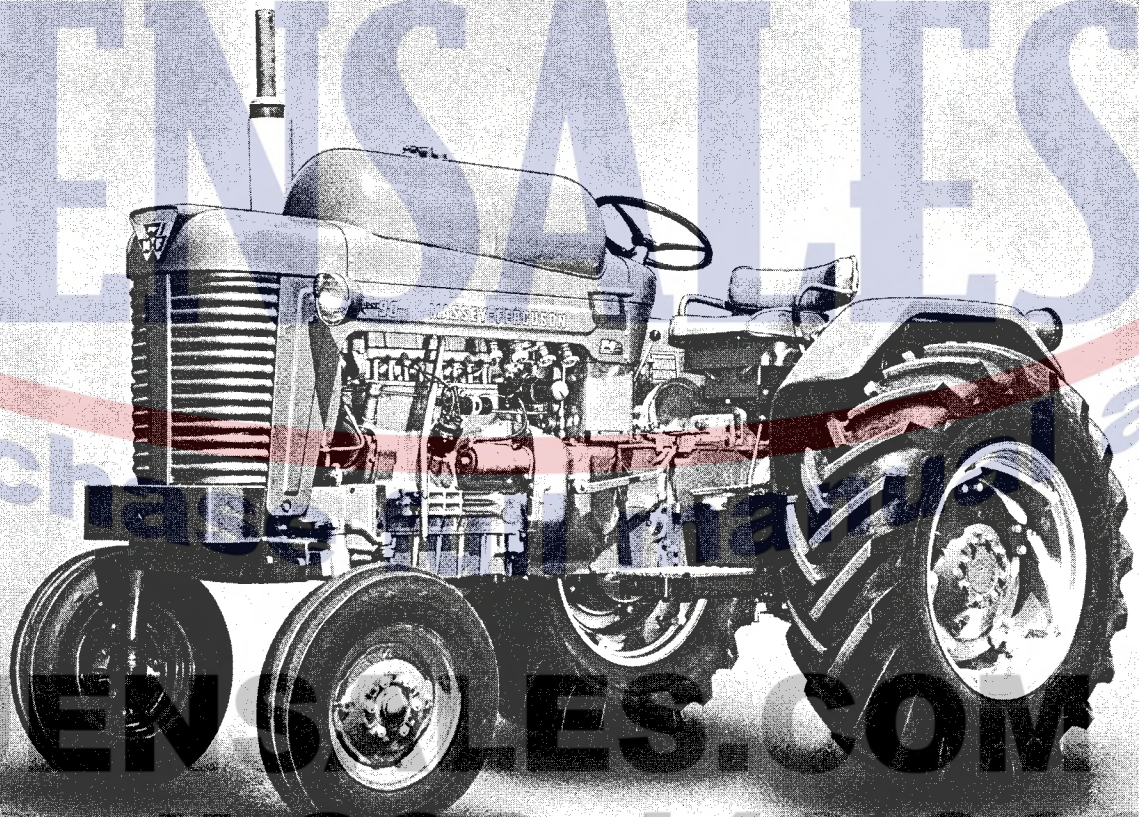
MH-O-MFS90 LP

MASSEY-FERGUSON

OPERATING INSTRUCTIONS

FOR THE

**MF SUPER 90 & 90 WR
LP GAS TRACTOR**



Owner's Manual



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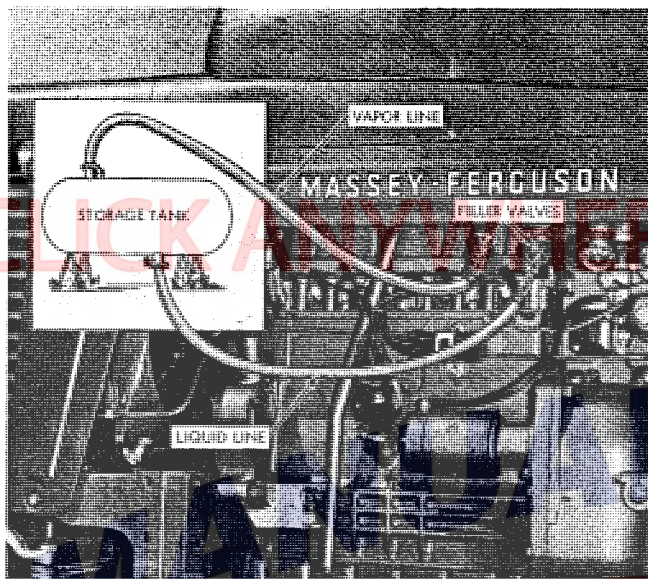


Fig. 10 - Filling the Tractor Tank

5. Open, fully, the storage tank vapor return valve.

NOTE: The vapor return valve on the storage tank must be open while the tractor tank is being filled. This equalizes the pressure in the two tanks permitting the liquid fuel to be transferred either by gravity or by pump.

6. Gradually open the storage tank valve that controls the flow of liquid fuel to the tractor fuel tank.

7. While filling, alternately open and close the fixed liquid level gauge.

8. Immediately close the storage tank valves when a white mist or vapor appears when the fixed liquid level gauge is opened. This indicates an 80% liquid fill in the tractor fuel tank.

CAUTION: Never fill the tractor fuel tank above the 80 per cent fixed liquid level gauge point as the remaining 20 per cent of the tank volume is required to safely handle the normal expansion of the liquid and vapor fuel due to temperature changes.

9. Disconnect both the liquid and the vapor hoses from the tractor fuel tank valves and

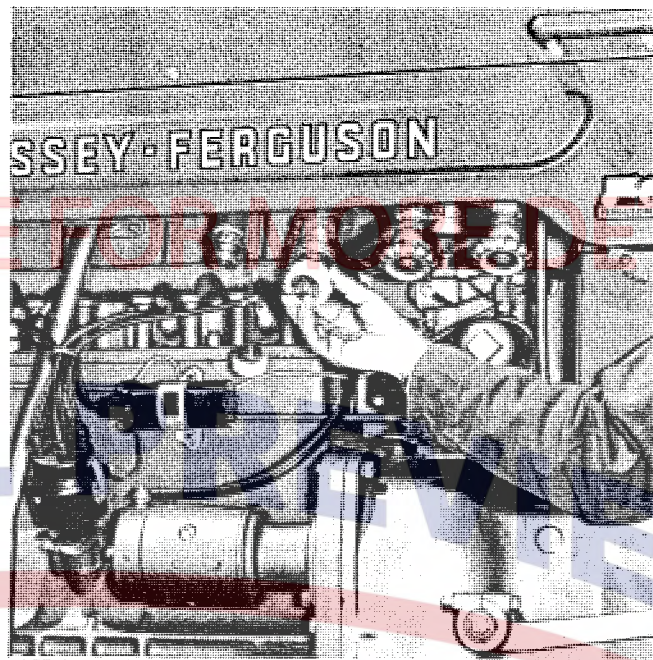


Fig. 11 - Dust Caps

screw the protective thread-on caps onto the tractor fuel tank valves to prevent moisture, dirt or other foreign matter from entering the valves.

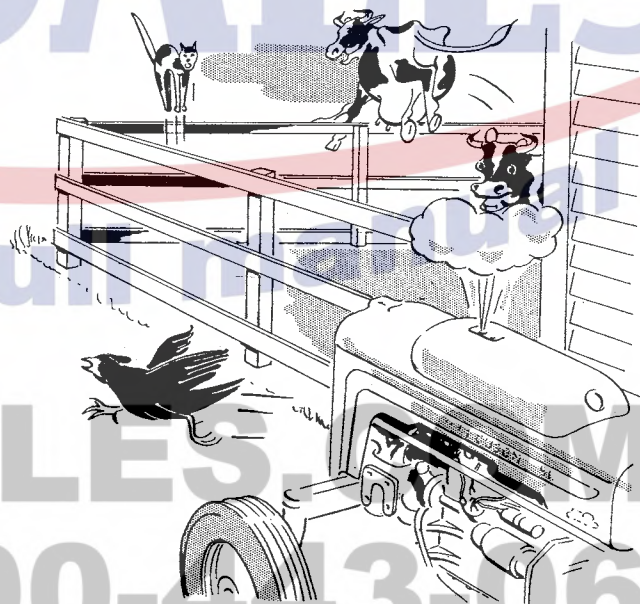


Fig. 11A - Never Fill the Tank to More than 80%

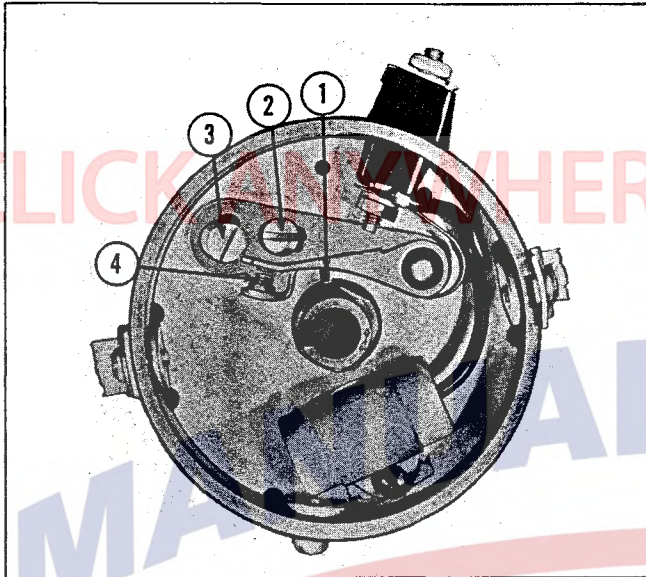


Fig. 14 - Distributor Adjustments

1. Check the high tension wiring. Frayed or corroded wires, loose, dirty or greasy connections and terminals will cause poor performance.

2. Check the rotor and cap. A carbonized or chipped rotor and cap will allow high tension leaks. A hair-line crack in the cap may have the same effect. Replace defective parts.

3. Check the contact points.

Distributor point gap: 0.022 inch

The points should meet squarely and have the proper gap. For a more accurate feeler gauge reading, clean the point surfaces with a few light strokes from a fine-cut contact file. If the points are badly burned, pitted or worn, replace them; attempts to redress such points are usually only temporarily effective. It is usually desirable to replace the condensor when points are replaced.

CAUTION: Never use emery cloth or sandpaper to clean points; embedded particles will cause arcing and burning.

4. See "Lubrication" section for proper lubrication. Excess lubricant may get on the contact points and cause them to burn.

SPARK PLUGS

All Massey-Ferguson LP Gas Tractors have Champion D-14 Spark Plugs as standard equip-

ment. It is recommended that Champion D-10 be used in high temperature, severe service conditions. Other make spark plugs of the equivalent heat ranges of the above are also satisfactory. Recommended spark plug gap setting is .020.

ENGINE TIMING

The LP Gas engine must be accurately timed in order to perform efficiently - if it should become necessary to time the engine, it is recommended that your Massey-Ferguson Dealer perform this service with a timing light. Your dealer will time the engine according to the following specifications:

ENGINE	Maximum Advance	
	@ 550 RPM	@ 2000 RPM
LPG Engine	5° to 7° B. T. D. C.	20° to 22° B. T. D. C.

TRACTOR STORAGE

When the Super 90 LP Gas Tractor is to be stored for an extended period of time, it should be properly prepared for storage in a dry and protected place.

1. Wash and clean the tractor.
2. Remove any rust spots and scratches and retouch with an MF spray-pak.
3. Service the air cleaner and make sure the air intake system is clean.
4. Lubricate all pressure grease fittings.
5. Drain the crankcase, replace the crankcase oil filter element with a new one, and refill the crankcase with the recommended grade of new oil.
6. Remove the power steering filter element with a new one.
7. Drain the transmission, clean the magnetic drain plugs, clean and replace the power steering pump strainer and refill the transmission with the recommended type of new oil.
8. Clean and repack the front wheel bearings.