



Massey Harris **Massey Ferguson**

Operator's Manual

MF235

Gas & Diesel

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MH-O-MF235GD

Operator's Manual

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MF 235 TRACTOR

MF

Massey Ferguson

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Inspect all items listed in Registration and Inspection Certificate inside rear cover. All information required to carry out inspection is contained in this Manual (refer to Index).

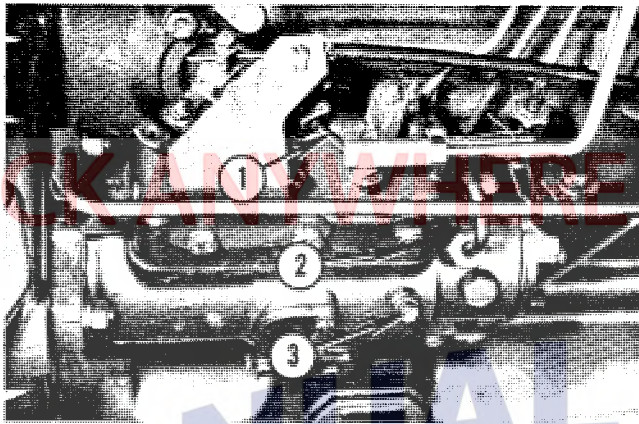


Fig. 40 — Injection Pump

1. Idle Speed Adjusting Screw
2. Upper Vent Plug
3. Lower Vent Plug

hand throttle to full open position, crank engine with starting motor until air-free fuel flows from connections. Tighten connections and start engine.

NOTE: Do not operate starter motor continuously for more than 30 seconds without allowing a few minutes for cooling.

LOW IDLE ADJUSTMENT

Turn idle speed adjusting screw, No. 1, Fig. 40, in or out until engine speed is 750 ± 25 rpm.

GASOLINE FUEL SYSTEM

CARBURETOR ADJUSTMENT

1. Turn out idle speed screw, No. 1, Fig. 41A, until idle speed is 450-500 rpm.
2. Adjust idle mixture screw, No. 1, Fig. 41B, until engine runs smooth at highest engine rpm.
3. Readjust idle speed screw, No. 1, Fig. 41A, to obtain engine idle speed of 750 ± 25 rpm.
4. Set maximum engine speed (no load) to 2425-2500 rpm.

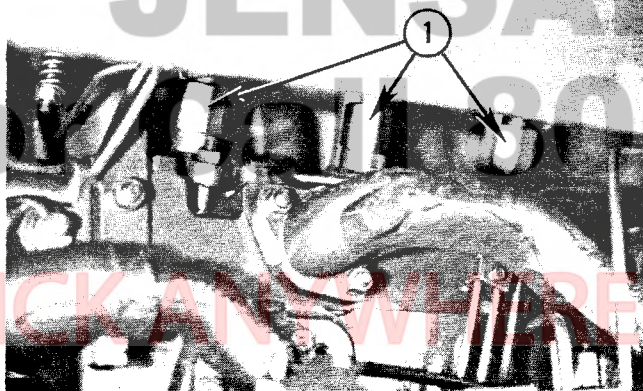


Fig. 41 — Engine — Partial View Left Side

1. Injector Connections

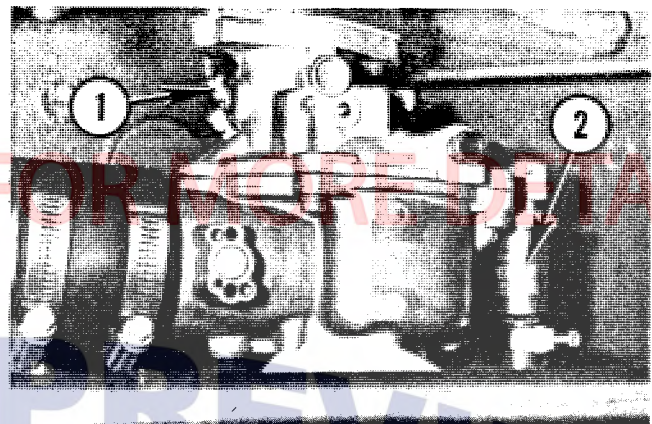


Fig. 41A — Carburetor Adjustment

1. Idle Speed Screw
2. In-Line Filter

DRAIN CARBURETOR BOWL

The carburetor bowl should be drained after every 500 hours of operation to allow any water or sediment to escape.

Close fuel shut-off valve, No. 1, Fig. 38, at fuel tank. Remove drain plug, No. 3, Fig. 41B, from bottom of carburetor bowl, allowing fuel and sediment to drain from carburetor. After carburetor has drained, replace and tighten drain plug securely; open fuel shut-off valve.

FUEL FILTER

The fuel system has an in-line fuel filter, No. 2, Fig. 41B, between tank and carburetor.

If engine operation becomes erratic, inspect in-line filter for water or dirt. If exceptionally dirty, it must be replaced.

THROTTLE CONTROL LEVER

Two spring-loaded friction discs hold throttle lever at desired setting. To compensate for creep

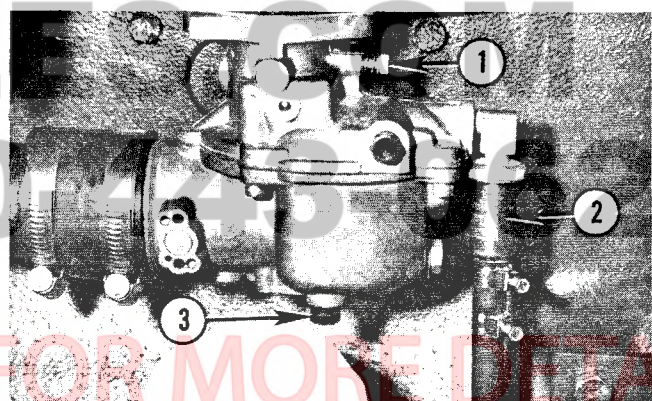


Fig. 41B — Carburetor Adjustment

1. Idle Mixture Screw
2. In-Line Filter
3. Carburetor Drain Plug

8-Speed Transmission Consists of a 4-speed forward and 1-speed reverse "sliding" gear set, compounded by a dual range planetary reduction gear set. Dual range planetary, connected to transmission main shaft, provides eight speeds forward and two reverse

Multi-Power Transmission Constant mesh, helical primary reduction gears with spur-type speed change gears. Transmission operates in conjunction with planetary reduction gear assembly and 2-stage compounding in combination with sliding gear and planetary compounding gear, providing 12 forward and four reverse speeds

CAPACITIES:

Fuel Tank	14 U.S., 11.6 Imp. gals.
Cooling System — Diesel	10.5 U.S., 8.7 Imp. qts.
Cooling System — Gasoline	10 U.S., 8.3 Imp. qts.
Crankcase with Filter Change	6 U.S., 5 Imp. qts.
Crankcase without Filter Change	5 U.S., 4.2 Imp. qts.
Hydraulic System	8 U.S., 6.7 Imp. gals.
Power Steering Reservoir	1 U.S., .8 Imp. qt.

DIMENSIONS:

Wheel Base:	
Swept Back Axle	72-3/8"
Straight Axle	74-1/2"
Length Overall (Approx.):	
Standard Clearance	116 inches
Vineyard	113 inches
Width Overall (Approx.):	
Standard Clearance	70 inches
Vineyard	54 inches
Wheel Tread — Front:	
Standard Clearance	48"-72"
Vineyard	44"-56"
Wheel Tread — Rear:	
Standard Clearance	PAVT — 52"-72"; Manual — 48"-76"
Vineyard	40"-48"
Turning Radius (without Brake)	Approximately 9-1/2 feet
Ground Clearance:	
Standard Clearance	9-3/4 inches
Vineyard	11 inches
Maximum Shipping Weight (Approx.):	
Standard Clearance	3600 lbs.
Vineyard	3350 lbs.

TIRES:

Front	5.50-16 — F2 — 4 Ply Rating
	6.00-16 — F2 — 4 Ply Rating
	7.50-10 — F3 — 6 Ply Rating
Rear	12.4-24 — R1 — 4 Ply Rating
	12.4-28 — R1 — 4 Ply Rating
	13.6-28 — R1 — 4 Ply Rating
	14.9-24 — R1 — 4 Ply Rating
	14.9-24 — R3 — 6 Ply Rating
	16.9-24 — R3 — 6 Ply Rating

PTO POWER:

Diesel	42 hp at 2250 rpm (Manufacturer's Rating)
Gasoline	41-42 hp at 2250 rpm (Manufacturer's Rating)

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