



Massey Harris
Massey Ferguson
Operator's Manual

MF2745

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MH-O-MF2745

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AND

Assembly
Instructions



MF 2745 TRACTOR

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TRANSMISSIONS

8-SPEED TRANSMISSION — FIG. 10

Tractor with 8-speed transmission has 8 forward speeds, but only 6 reverse speeds.

Lever, 1, is used to select forward or reverse gears. Lever forward for forward gears and lever rearward for reverse gears. Lever, 2, is used to select 8 forward or 6 reverse gears.



FIG. 10

SHIFTING GEARS

To move lever, 1, Fig. 10, from forward to reverse, first place lever, 2, into gears 1 thru 6.

Lever, 1, can be moved from reverse to forward with lever, 2, either in gear or in neutral.

1. Stop Tractor motion and reduce engine speed to low rpm.

2. Depress clutch pedal and move gearshift lever into desired gear.

3. Should gears not readily engage, release clutch slightly and repeat Step No. 2.

4. After gears have been engaged, release clutch pedal and increase throttle setting until desired ground speed has been reached. See Ground Speed Charts.

IMPORTANT: DO NOT RIDE CLUTCH, as this will cause unnecessary wear on clutch lining, release bearing, clutch disc and pressure plate.



FIG. 38

Fig. 38 — Clutch Release Bearing

1. Grease fitting — 100 hours (2 shots).



FIG. 39

Fig. 39 — Rear Axle Lubrication Point

1. Plug — 750 hours.

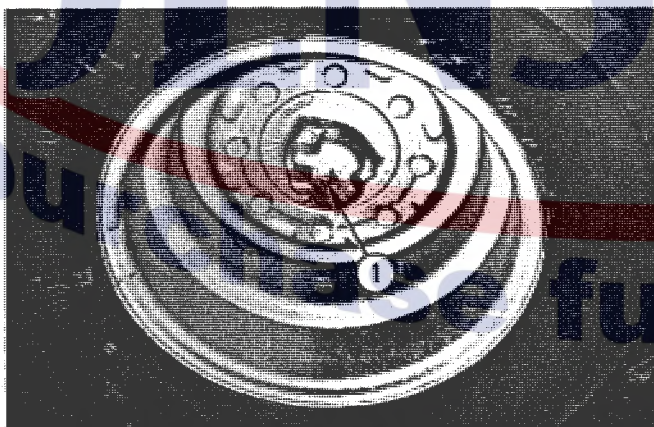


FIG. 40

Fig. 40 — Front Wheel Hub Cap

1. Grease fitting — 50 hours.



FIG. 41

Fig. 41 — Swinging Drawbar
(Western Model)

SPECIFICATIONS

ENGINE:

Type AV8.540, direct injection
Cylinder Bore 108 mm (4.25 inches)
Piston Stroke 121 mm (4.75 inches)
Total Displacement 8.8 litres (540 cu. inches)
Compression Ratio 18.4:1
Firing Order 1-8-7-5-4-3-6-2
Low Idle RPM 850 ± 25
Maximum Full Load Speed 2600 rpm
High Idle 2860 rpm

FUEL SYSTEM:

Type Gravity flow and pressure fed
Filters Two full flow with replaceable elements
Fuel Injectors Multi-hole type

ELECTRICAL SYSTEM:

Batteries Two 12-volt, 95 amp. hr. negative ground
Starter Switch Key operated
Starter 12-volt, 4 pole
Alternator Continuous output, diode rectified A.C. type with built-in solid state regulator

BRAKE:

Type — Power Assist Single disc, 413 mm (16-1/4 inches) wet brakes — automatically filled reservoir

HYDRAULIC SYSTEM:

Type Dual hydraulic gear pump with circuit for 3-point hitch and auxiliary hydraulic service and a second circuit for pressure lubrication to transmission, multi-power clutches, IPTO clutch and tractor brake cooling

CAPACITY:

Main Pump Main section for linkage and 3rd spool version of auxiliary hydraulics 64.9 litres per min. (17.1 gpm) low pressure section for IPTO clutch, transmission, etc. 25.1 litres per min. (6.6 gpm)
Auxiliary Pump Mounts in L.H. cover — hydraulic capacity 64.9 litres per min. (17.1 gpm)
Power Steering Pump Engine mounted and driven with separate reservoir 5.7 litres per min. (5.7 gpm)

Implement Control Systems (Linkage Models Only) Draft Control and Position Control
Auxiliary Hydraulics (1) Two spool valve auxiliary hydraulic valve mounted on left-hand side (with auxiliary pump) with automatic return from detent position (2) Two spool valve on left-hand side and one spool on right-hand for three independent circuits with automatic return from detent position.

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