



**Massey Harris
Massey Ferguson
Operator's Manual
MF175 & MF180**

Operator's Manual

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MH-O-MF175-180

Make: Massey-Ferguson	Model: 175	Years Made: 1964-1975
HP-PTO: 63.34	HP-Engine:	HP-Drawbar: 53.5
HP-Range: 63	Engine-Make: PERKINS	Engine-Fuel: DIESEL
Engine-Cyl(s)-CID: 4/236	Transmission-STD: MULTIPOWER	Optional:
Fwd/Rev Standard: 12/	Fwd/Rev Optional:	Mfwd-Std/Opt:
Tires-Std Front: 6.50-16	Tires-Std Rear: 16.9-28	Wheelbase-Inch:
Pto Type: LIVE	Pto Speed: 175	CAT I-3pt Hitch: False
CAT II-3pt Hitch: True	CAT III-3pt Hitch: False	Hitch Lift:
Hydraulics-Type: OPEN	Hyd-Cap:	Hyd-Flow:
Hyd Std Outlets:	Cooling Capacity:	Fuel Tank Capacity:
Cab-Stdm A/C; Rops:	Weight: 6125	New Price: 7553

Make: Massey-Ferguson	Model: 180	Years Made: 1964-1975
HP-PTO: 63.68	HP-Engine:	HP-Drawbar: 53.8
HP-Range: 64	Engine-Make: PERKINS	Engine-Fuel: DIESEL
Engine-Cyl(s)-CID: 4/236	Transmission-STD: MULTIPOWER	Optional:
Fwd/Rev Standard: 12/	Fwd/Rev Optional:	Mfwd-Std/Opt:
Tires-Std Front: 7.50-15	Tires-Std Rear: 15.5-38	Wheelbase-Inch:
Pto Type: LIVE	Pto Speed: OPEN	CAT I-3pt Hitch: False
CAT II-3pt Hitch: True	CAT III-3pt Hitch: False	Hitch Lift:
Hydraulics-Type: OPEN	Hyd-Cap:	Hyd-Flow:
Hyd Std Outlets: 1	Cooling Capacity:	Fuel Tank Capacity:
Cab-Stdm A/C; Rops:	Weight: 6755	New Price: 7583

Paint Codes	
Location	MFG Color Name
TRIM	SILVER MIST
BODY	MASSEY FERGUSON RED
ENGINE	FLINT GREY

Make: Massey-Ferguson	Model: 178	Years Made: 1968-1971
HP-PTO: 73.62	HP-Engine: 73	HP-Drawbar:
HP-Range: 73	Engine-Make: PERKINS	Engine-Fuel: DIESEL
Engine-Cyl(s)-CID: 4/248	Transmission-STD: MULTIPOWER	Optional:
Fwd/Rev Standard: 12/	Fwd/Rev Optional:	Mfwd-Std/Opt:
Tires-Std Front: 7.50-16	Tires-Std Rear: 12X36	Wheelbase-Inch: 84
Pto Type: LIVE	Pto Speed: 175	CAT I-3pt Hitch:
CAT II-3pt Hitch:	CAT III-3pt Hitch:	Hitch Lift:
Hydraulics-Type: OPEN	Hyd-Cap:	Hyd-Flow:
Hyd Std Outlets:	Cooling Capacity:	Fuel Tank Capacity: 21.7
Cab-Stdm A/C; Rops:	Weight: 6878	New Price:

Make: Massey-Ferguson	Model: 282	Years Made: 1982-1983
HP-PTO: 64	HP-Engine: PERKINS	HP-Drawbar: DIESEL
HP-Range: 64	Engine-Make: 4/248	Engine-Fuel: SG-DUAL RANGE
Engine-Cyl(s)-CID:	Transmission-STD: 8/2	Optional:
Fwd/Rev Standard:	Fwd/Rev Optional:	Mfwd-Std/Opt:
Tires-Std Front: 7.50-16	Tires-Std Rear: 14.9-38	Wheelbase-Inch: 84
Pto Type: LIVE	Pto Speed: 540	CAT I-3pt Hitch: False
CAT II-3pt Hitch: True	CAT III-3pt Hitch: False	Hitch Lift:
Hydraulics-Type:	Hyd-Cap:	Hyd-Flow:
Hyd Std Outlets:	Cooling Capacity:	Fuel Tank Capacity:
Cab-Stdm A/C; Rops:	Weight: 5292	New Price: 11073

DASH PANEL MF 175 & MF 180		
Year		Beginning Serial Number
1964	MF 175	644000001
1964	MF 180	645000001
1965	MF 175	645000002
1965	MF 180	644000004
1966	MF 175	6440000214
1966	MF 180	645000047
1967		9A10001
1968		9A39836
1969		9A63158
1970		9A87325
1971		9A107519
1972		9A128141
1973		9A152025
1974		9A182761
1975		9A207681

DASH PANEL MF 282		
Year		Beginning Serial Number
1982		KC24457S
1982		KC25226H
1983		KD25518H
1983		KD26466S

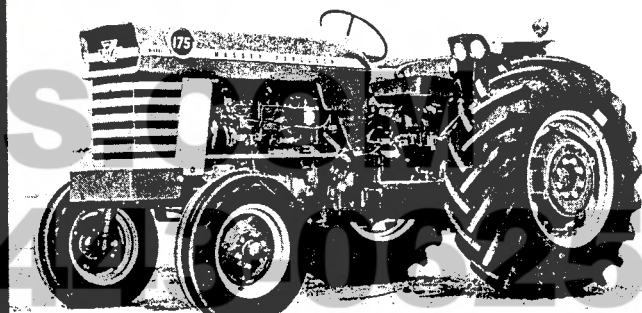
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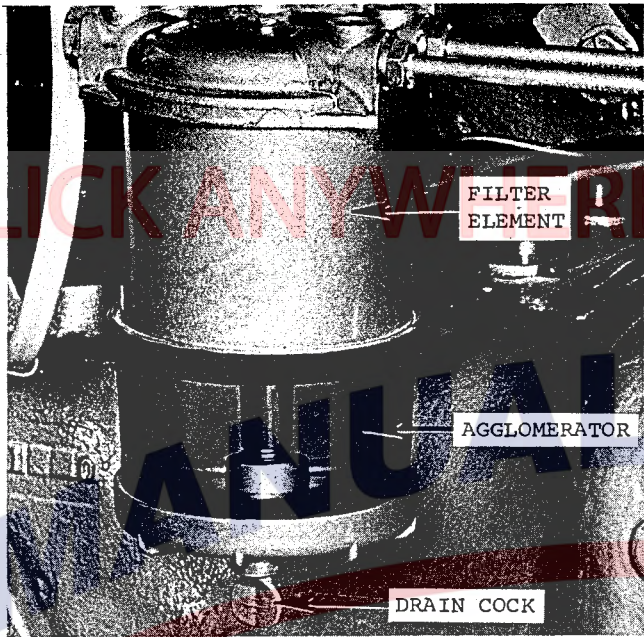


Fig. 16 - Primary Fuel Filter

5. On diesel models, check the agglomerator on the primary fuel filter. If sediment is present, drain agglomerator. (See page 50.)

6. Lubricate the Tractor as specified in the 10-Hour Lubrication schedule.

FILLING TRACTOR FUEL TANK

The Tractor fuel tank is located beneath the hood and is accessible by opening the hood service panel. (See page 63.) Fill the fuel tank at the end of each day. Do not permit the Tractor to stand for an extended period with a low fuel level in the tank as condensation and rust may collect.

The capacities of the MF 175 and MF 180 fuel tanks are:

MF 175 18.5 U.S. - 14.8 Imp. Gals.
MF 180 29 U.S. - 23.2 Imp. Gals.

For diesel engine, use No. 1-D fuel in winter and No. 2-D in summer.

IMPORTANT: Stop the engine before filling the fuel tank.

WARM WEATHER STARTING

GAS MODELS

Perform pre-starting inspection as outlined under "Starting the Engine".

1. Firmly lock the parking brake.
2. Place the "Gearshift Lever" and "Dual Range Lever" in neutral and depress the clutch pedal.
3. Advance the hand throttle $1/8$ to $1/4$ open.
4. Pull choke control outward the full distance. (If Tractor engine is warm, engine may be started without choking.)
5. Turn the ignition-starter switch to the ignition position. Continue to turn the switch to the start position. After the engine has started, release the switch, it will automatically return to the ignition position. (Do not crank engine with starter for more than 30 seconds at a time, as this will overheat starter. Wait a few minutes for starter to cool before attempting to start the engine again.)



CAUTION: Carbon monoxide (exhaust fumes) is a killer. Never operate your Tractor in a closed building.

6. After engine has started, push choke control knob in.
7. Release clutch pedal. Advance the throttle to a fast idle and allow the engine to warm up before placing the Tractor under load.
8. With the engine running, observe all instruments, especially the oil pressure gauge and water temperature gauge. If a low oil pressure or an abnormal water temperature is indicated, stop the engine and correct the trouble.

DIESEL MODELS

Perform pre-starting inspection as outlined under "Starting the Engine".



Fig. 67 - Rear Axle Planetary Unit



750-HOUR LUBRICATION (Or Annually)

REAR AXLE PLANETARY

Drain both rear axle planetary units by removing the drain plugs and filler plugs. Replace the drain plugs. Refill each unit with new oil (M-1129 or M-1129A) through filler plug hole until oils runs out. Replace oil filler plugs.

POWER STEERING RESERVOIR

Remove the reservoir from the power steering pump unit. Drain oil into a container and discard oil filter element. Install new filter element and replace reservoir on pump unit.

Add oil to the reservoir, as stated under "50 Hour Lubrication."

STEERING GEAR HOUSING - MF175

Check and maintain the oil level in the steering gear housing, using oil Specification M-1129 or M-1129A.



Fig. 68 - Steering Gear Housing Filler Plug MF 175

TRANSMISSION, DIFFERENTIAL AND HYDRAULIC SYSTEM

Change transmission, differential and hydraulic system oil, as stated under "50-Hour Lubrication".

MULTI-POWER TRANSMISSION FILTER ELEMENT

Replace the filter element as stated under "50-Hour Lubrication".

REPACKING THE FRONT WHEEL BEARINGS

It is advisable to remove the front wheels from the hubs, especially if the tires are liquid-filled or weights are attached to the wheels, before attempting to service the front wheel bearings.

1. Remove the hubs from the spindles and thoroughly clean the bearings and seals in a suitable cleaning solvent (not gasoline) and inspect for wear. Replace bearings or seals if necessary. Remove the old grease from inside the hub.

Recommended Timing - Max Engine Speed 27° B.T.D.C.
Contact Point Gap set at 0.022 inch
Contact Point Dwell Angle 31°-34°

Starter Motor:

Make & Model Delco-Remy 1107268
Spark Plugs:
Make (std. factory equip.) Champion UN-12Y
Size 14MM
Gap 0.025 inch

DIESEL:

Battery:

Make & Part No. Massey-Ferguson 832 709 M2
Volts 12
Amp./Hour Rate 95

Generator:

Make & Model Delco-Remy 1100435
Voltage 12
Charging Rate 25 amp.

Regulator:

Make & Model Delco-Remy 1118981

Starter Motor:

Make & Model Delco-Remy 1107539

BRAKES:

Type Mechanical, self-energizing, double disc type, 7" diameter.
Pedal Free Travel 2-1/2" to 3"

HYDRAULIC SYSTEM:

Lift Pump Constant running, scotch yoke, piston-type
Maximum Pressure 3000 psi
Delivery 4.8 gpm at 2000 engine rpm and 1500 psi
Control Oscillating control valve on inlet side of pump
Auxiliary Pump (optional on MF 175) Constant running, gear type
Delivery 9 gpm at 2000 engine rpm (7 gpm for external use - 2 gpm for Multi-Power.)

Oil Available for External Services:

w/Auxiliary Hydraulic Pump:

Auxiliary Pump Only 7 gpm at 2000 engine rpm
Lift Pump Only 4.8 gpm at 2000 engine rpm
Combined Flow 11.8 gpm at 2000 engine rpm

w/o Auxiliary Hyd. Pump (MF 175):

Lift Pump Only 4.8 gpm at 2000 engine rpm