



Massey Harris **Massey Ferguson**

Operator's Manual

MF154-4

Operator's Manual

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INDEX

PAGE

INSTRUMENTS AND CONTROLS	10
OPERATION	16
Break-in Period	16
Starting	16
Warm Weather Starting	17
Cold Weather Starting	17
Operating the Tractor	19
Shifting Gears	19
Speed Chart	19
Front Wheel Drive	20
Brakes	20
Differential Lock	20
Drawbars	21
Power Take-Off	22
Hydraulic System	24
Position Control	24
Draft and Sensitivity Control	24
Hydraulic Lift Linkage	25
Auxiliary Hydraulics	27
Wheel Tread Settings	28
Seat Adjustment	29
Stopping the Tractor (Parking)	29
Towing Tractor	30
LUBRICATION AND MAINTENANCE	31
Interval Chart	31
Specifications and Capacities (Fuels, Lubricants & Coolant)	32
PROCEDURES FOR LUBRICATION AND MAINTENANCE	34
Grease Fittings	34
Engine Oil and Filter	36
Fuel System	37
Agglomerator	37
Replacing Fuel Filter Element	37
Air Bleeding Fuel System	38
Low Idle Adjustment	40
Engine Air Cleaner	40
Pre-filter	41
Reservoir and Lower Filter	41
Secondary Filter	42

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PAGE

Cooling System	42
Transmission, Center Housing and Hydraulic System Oil and Filter	43
Clutch Pedal	44
Engine Speed PTO Clutch Lever	45
Brake Pedals	46
Parking Brake	46
Front Drive Axle	47
Rear Axle Final Drives	49
Power Steering	49
Front Wheel Toe-In	49
Tires	50
Electrical System	51
Alternator	51
Battery	52
Fuses	53
Signal Flasher	53
Wiring Diagram	54
STORAGE	56
TROUBLE-SHOOTING ENGINE	57
SPECIFICATIONS	59

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**PROCEDURES FOR
LUBRICATION AND
MAINTENANCE
GREASE FITTINGS**

Fig. 28 — Front axle pivot — front support

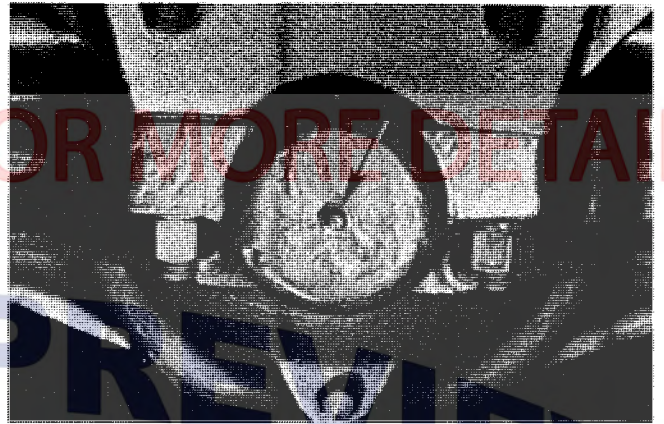


FIG. 28

Fig. 29 — Front axle pivot — rear support



FIG. 29

Fig. 30 — Brake pedals



FIG. 30

Fig. 31 — Clutch pedal

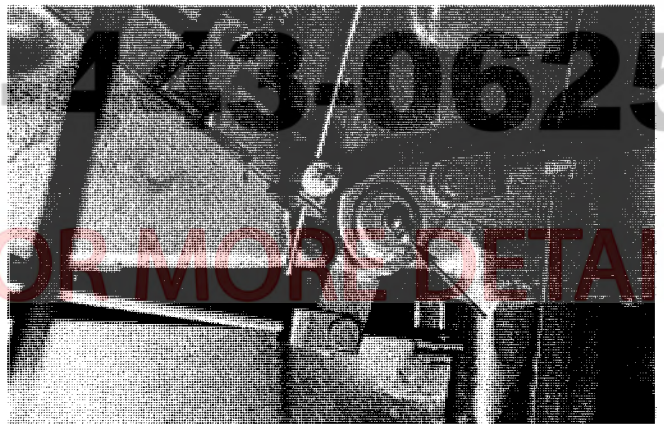


FIG. 31

REAR AXLE FINAL DRIVES

The rear axle final drives have their own separate oil sumps. Each has a filler plug, level check plug and a drain plug.

Referring to Fig. 72 — 1, is filler plug and, 2, is level check plug.

Referring to Fig. 73 — 1, is drain plug.



FIG. 72

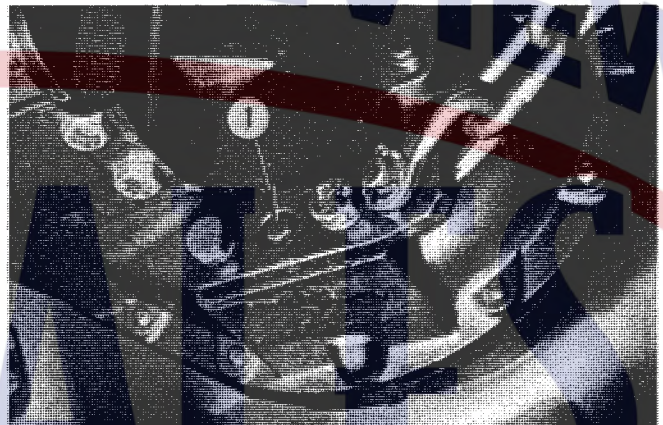


FIG. 73

POWER STEERING — FIG. 74

The power steering oil reservoir, 1, is located in front of the radiator and is accessible by tilting the engine hood forward. A combination filler cap/dipstick, 2, is located on top of the reservoir. Oil level should be maintained between the two marks on the dipstick as shown.



FIG. 74

FRONT WHEEL TOE-IN

Front wheel toe-in was set at ZERO at the factory and, in normal operation of the Tractor no readjustment is required. However, the following toe-in specifications are given.

$0 \pm 6 \text{ mm } (0 \pm 1/4")$

NOTE: Toe-in is measured at mid-height of the tires and center to center on the tire tread.

SPECIFICATIONS

ENGINE:

Type	4 stroke, direct injection diesel
Make	Perkins
Model	AD3 152S
Number of Cylinders	3
Displacement	2502 C.C. (152 C.I.)
Compression Ratio	16.5:1
Cylinder Bore	91.4 mm (3.6 in.)
Piston Stroke	127 mm (5.0 in.)
Firing Order	1-2-3
Low Idle Speed	650 RPM
High Idle Speed	2390 RPM
*Horsepower	42 at 2250 RPM

*Manufacturers estimate

Valve Clearance:

Hot	0.25 mm (0.10 in.)
Cold	0.30 mm (0.12 in.)

Fuel Injection Pump (Make)	CAV
Fuel Injectors (Make)	CAV
Fuel Filtering System	One filter, full flow with replaceable element

ELECTRICAL SYSTEM:

Battery	One 12 volt, 95 amp-hr., negative ground
Specific Gravity	1.260-1.300 (fully charged)
Starter Switch	Key operated
Starter	12 volt, 4 pole
Alternator	Diode rectified A.C. type with built-in solid state regulator
Fuses for Electrical Wiring	Six — 8 amp fuses

BRAKES:

Type	Independent mechanically actuated double disc dry brakes
Steering	Hydrostatic with booster cylinder on front axle

HYDRAULIC SYSTEM:

Lift Pump	Constant running, gear type mounted on engine
Maximum Pressure	16.67 MPa (2418 psi)
Delivery @ 2200 Engine RPM	28 litres/min. (7.4 U.S., 6.2 Imp. gpm)

POWER TRAIN:

Clutch:	
Type	Dual dry-disc
Transmission	Four synchronized speeds and reduction gearing in four ranges: 1st, 2nd, 3rd and reverse to provide 12 forward and four reverse speeds
Rear Axle	Center crown wheel and pinion, gear type with final reduction units at outer ends of rear axle
Front Axle	Malleable cast iron axle pivoting on two center supports with a center differential assembly and epicyclic reduction gears in wheel hubs