



Massey Harris Massey Ferguson

Operator's Manual

MF20 Industrial

Tractor, Loader & Backhoe

Operator's Manual

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MH-O-MF20 IND

Operator's Manual



**MF 20 TRACTOR
BACKHOE LOADER**



Massey Ferguson

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TRACTOR

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BACKHOE

Before attempting to operate the Backhoe, familiarize yourself with the Operator's Manual. Directional references are made with the operator seated on the Backhoe seat.

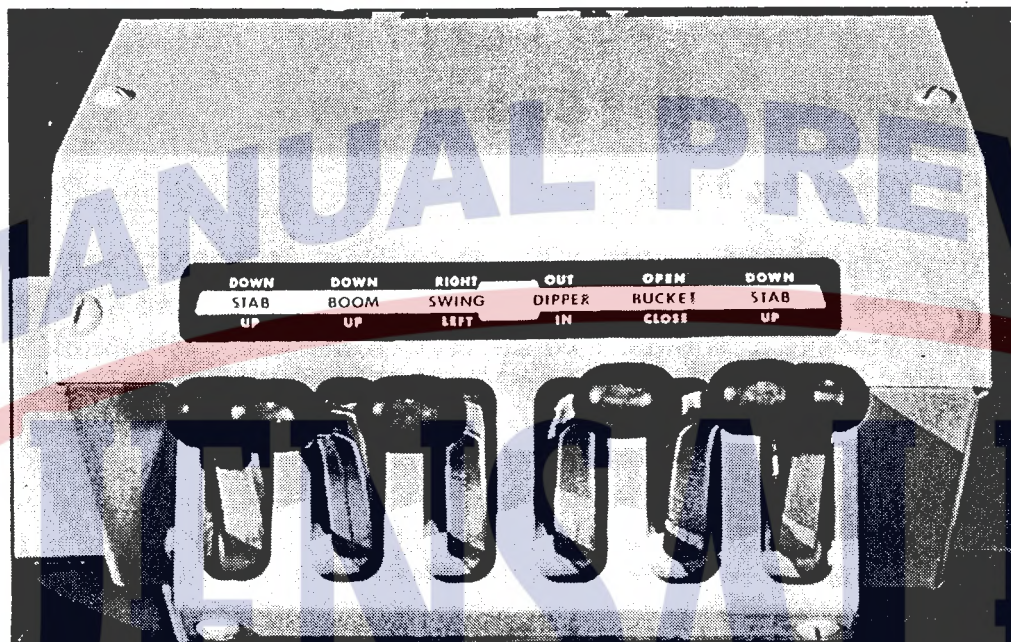


Fig. B1 — Backhoe Control Levers

CONTROLS

The six control levers on the valve console are shown in Fig. B1. The decal informs the operator what operation occurs when a lever is pushed or pulled. The levers are in a neutral position until they are moved by the operator.

NOTE: Position one of the hydraulic control levers in the maximum down position. This will eliminate the possibility of horsepower loss due to internal hydraulic demand.

ENGINE OPERATING SPEED

The Backhoe working speed is dependent upon the following factors:

- a. The unit to which it is attached.
- b. The size of the hydraulic pump.
- c. The engine operating speed.

The Backhoe may be operated at fully governed engine rpm when mounted on units listed in this Manual.

FUEL SYSTEM:

Gasoline:

Type Gravity flow
Carburetor Up draft dustproof type

Diesel:

Type Pressure-fed
Primary Fuel Pump Diaphragm type
Fuel Filter One filter, full flow, w/replaceable element
Injection Pump CAV distributor type
Fuel Injectors CAV multi-hole type
Injection Timing 24° B.T.D.C.

COOLING SYSTEM:

Type Circulated by a centrifugal pump, with a
by-pass system. Flow thermostatically
controlled through the radiator.
Pressure Cap 7 psi

POWER TRAIN:

Clutch Dual dry-disc
Primary Clutch Coilspring-loaded, 11" dia.
Secondary Clutch Belleville spring-loaded, 9" dia.
Manual Shuttle Transmission Manually shifted splined
coupler. Three-speed sliding spur gear
sets compounded by a planetary
reduction, providing 6 forward and 6 reverse speeds.

EIGHT SPEED TRANSMISSION:

Consists of a four-speed forward and one-speed reverse "sliding"
gear set, compounded by a dual range planetary reduction gear
set. The dual range planetary, connected to the transmission
main shaft, provides 8 forward and 2 reverse speeds.

POWER TAKE-OFF:

Shaft Splined, 1-3/8" dia. ASAE std.
Control:
"Live" PTO 2-position shift lever (Engine) (Neutral)
Shaft Speed:
"Live" PTO-Engine 540 rpm at 1700 engine rpm.