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MANUAL PREVIEW

International
Harvester
Operator's Manual
for FARMALL
M & MV

Operator's Manual

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IH-O-M,MV

M & MV

Starting Serial Numbers

1939	501
1940	7240
1941	25371
1942	50988
1943	60011
1944	67424
1945	88085
1946	105564
1947	122823
1948	151708
1949	180514
1950	213579
1951	247518
1952	290923

Paint Codes

Ag Farmall Antique Red (to 1981)

IH.....991012R3 (aerosol)

IH991010R2 (quart)

IH.....B90882 (gallon)

Silver (for wheel rims)

IHb17567 (aerosol)

IH.....b17565 (quart)

IHb17563 (gallon)

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INTERNATIONAL HARVESTER COMPANY

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Chicago 1, Illinois, U.S.A.

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MAINTENANCE

Possible Cause

Possible Remedy

Transmission

Hard to shift gears.....	Use correct grade of lubricant; <i>see pages 29 and 30.</i>
Shifter fork or lever defective.....	Replace, or see your dealer.
Engine clutch drags.....	Refer to "Lack of Power."
Gears clashing.....	Stop tractor and disengage clutch before shifting gears.
Gears slipping out of mesh.....	See your dealer.
Noisy.....	Check oil level; use proper grade lubricant, or see your dealer.
Damaged parts.....	See your dealer.

Rear Wheels

Do not turn.....	Release brake lock. Transmission, differential or clutch faulty. Refer to "Transmission" above, or see your dealer.
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Front Wheels

Too tight or too loose.....	Check lubricant in bearings and grease retainers, check bearing adjustment; <i>see page 30.</i>
Lubricant leakage.....	Check oil seal, or see your dealer.

Steering

Faulty.....	Check steering worm and gear, check front axle adjustment; <i>see pages 61 to 67.</i> Check lubricant in front wheel. Check tire inflation, or see your dealer.
Defective front axle.....	Inspect linkage, check and replace faulty parts, or see your dealer.
Tractor turns to one side.....	Check and adjust brakes evenly; <i>see page 59.</i> Check pneumatic tire air pressures. Check front axle adjustment; <i>see pages 61 to 67.</i>

Pneumatic Tires

Excessive or uneven wear.....	Check for toe-in; <i>see page 63.</i> Check air pressure and load on tires; <i>see page 70.</i>
Slippage, rear tire.....	Add more weight, and check for high pressure; <i>see page 70.</i> If tread is badly worn, tires may slip more readily. Replace with new tires or use lug-type chains.

Hydraulic Lift-All

Refer to detailed instructions on *pages 72 and 73*, or see your dealer.

MAINTENANCE

Storing and Housing Your Tractor

When your tractor is not to be used for some time, it should be stored in a dry and protected place. To leave equipment outdoors, exposed to the elements, will result in materially shortening the life of the machine.

Follow the procedure outlined below when your tractor is placed in storage, and repeat the lubrication precautions every six months thereafter. We also recommend that caution be practiced in starting an engine that has been in storage.

1. Wash or clean and completely lubricate the tractor (refer to "Lubrication Guide").

2. Drain and flush the cooling system.

3. **Tractors with magneto:** Oil the magneto impulse coupling liberally with very light oil such as cream separator or sewing machine oil.

4. After the engine has cooled off, remove the spark plugs and pour one tablespoonful of SAE-50 lubricating oil of a good grade into each cylinder. Crank the engine two or three times to distribute the oil over the cylinder walls. Then replace the spark plugs.

5. Remove the valve housing cover and flush the valves, rocker arms and push rods with SAE-50 oil. (If any evidence of rust is found, remove it before lubricating.) Replace the valve housing cover.

6. Plug up the end of the breather pipe and exhaust pipe.

7. Remove the oil filter element. (If any evidence of rust is found on the center stud, clean thoroughly.) Replace the old filter element with a new one and flush out any sludge from the filter base as instructed on page 21.

8. Drain the fuel from the fuel tank and carburetor, and clean out the fuel strainer glass bowl.

Caution! Gum will eventually form in the fuel tanks, lines and carburetor if the unit is not used. Gum in carburetor jets and passages affects engine starting. Gum can be dissolved with acetone or a 50-50 mixture of alcohol and benzol.

9. If the tractor is equipped with a storage battery, remove the battery and place it on a rack in

a cool room and check the battery at least once a month for water level and specific gravity; see page 56.

Starting Engines That Have Been in Storage

1. Remove the spark plugs and pour a mixture of one-half gasoline and one-half light lubricating oil into each cylinder (two tablespoonfuls per cylinder is enough).

2. Remove the valve housing cover and flush the valve and valve operating mechanism with the same mixture.

3. Crank the engine rapidly until excess oil has been blown out of the spark plug holes. This operation will loosen any tight piston rings and wash old gummy oil from valves and pistons.

4. **Tractors with magneto:** Flush out the impulse coupling with kerosene, and lubricate as specified.

5. Drain the crankcase and flush out with kerosene or flushing oil and fill with specified lubricating oil. (See "Lubrication Guide.")

6. Be sure the lubricating oil filter has a new element before starting the engine.

7. Remove the crankcase breather pipe plug and the exhaust pipe plug.

8. Install the spark plugs after cleaning and setting the gaps.

9. Fill the water cooling system.

10. Fill the fuel tanks.

11. Install a fully charged battery (if used) and be sure the proper connections are made.

12. Clean the air cleaner and refill the oil cup.

13. Start the engine and let it run slowly; observe if any valves are sticking. If so, pour a small quantity of kerosene on the valve stem until loose.

14. Assemble the valve housing cover.

Caution! Do not accelerate the engine rapidly or operate at high speed immediately after starting.

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