574
International Tractor

Operators Manual

1084225R4

Reprinted

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CONTENTS

INTRODUCTION	**4**
WORK SAFELY – FOLLOW THESE RULES	**5, 6**
Servicing and Before Starting	5
Starting	5
During Operation	5
Transporting	6
Before Dismounting	6
Dismounting	6
After an Upset	6
INSTRUMENTS AND CONTROLS	**7**
BEFORE OPERATING YOUR NEW TRACTOR	**8**
Tractor Break-in Procedure	8
Lubrication	8
Tires	8
Air Cleaning System	8
Engine Cooling System	8
Fuel System	8
DRIVING THE TRACTOR	**9 to 13**
Preparing the Tractor for Each Day's Work	9
Fuel Gauge	9
Filling the Fuel Tank	9
Suspension Seat	9
Steering the Tractor	10
Using the Brakes	10
Safety Starting Switch	10
Transmission Range and Speed Levers	10
Accelerator Pedal	11
Starting the Tractor	11
Differential Lock	11
Stopping the Tractor	12
Park Brake	12
Towing the Tractor	13
Tachometer	13
GASOLINE ENGINE AND FUEL SYSTEM	**14 to 17**
Starting the Engine	14
After the Engine is Running	15
Engine Oil Pressure Gauge	15
Stopping the Engine	15
Cleaning the Fuel Strainer and Sediment Bowl	15
Carburetor	16
Solenoid Fuel Shut-Off Valve	17
DIESEL ENGINE AND FUEL SYSTEM	**17 to 22**
Fuel System	18
Warranty Notice	18
Venting the Fuel System	18
Starting the Engine	18
After the Engine is Running	20
Engine Oil Pressure Gauge	20
Stopping the Engine	20
Changing the Ether Fluid Container	20
Fuel Filters	21
Fuel Filter Water Drain Valves	22
Fuel Injection Pump and Nozzles	22
Injection Pump Governor	22
HYDRAULIC CONTROLS FOR THREE-POINT HITCH	**23 to 26**
Position Control Lever (Inside Lever)	23
Adjustable Stop	24
Draft Control (Outside Lever)	24
Raise Response	25
Drop Response	26
THREE-POINT HITCH	**27 to 32**
Lift Links and Leveling Cranks	27
Hitch Lower Links	28
Hitch Upper Link	28
Restraining Chains	28
Stabilizers	29
Power Take-Off	30
Coupling Equipment	30
Example of Operating the Three-Point Hitch with Draft Control	31
Uncoupling the Equipment	32
Removing the Three-Point Hitch Linkage	32
Installing the Three-Point Hitch Linkage	32
HITCHING TRAILING EQUIPMENT TO THE TRACTOR	**33, 34**
Swinging Drawbar	33
Operating Position	33
Storage Position	34

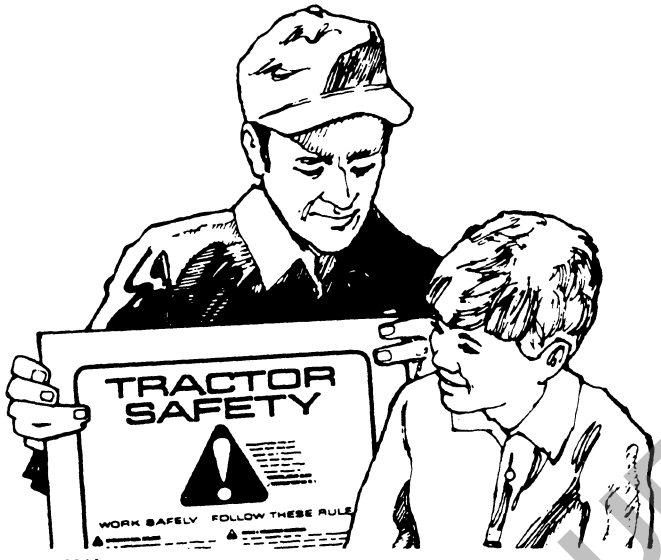
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WORK SAFELY — FOLLOW THESE RULES

This symbol is used to call your attention to instructions concerning your personal safety. Be sure to observe and follow these instructions.

A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT



MA-12214

SERVICING AND BEFORE STARTING

Carefully supervise inexperienced operators.

When fueling a tractor, keep any type of open flame away. Do not smoke. Stop the engine and wait for it to cool before removing the fuel cap or refueling.

Be sure that the fuel tank cap is fully tightened against the stop before starting the engine.

Check coolant and engine oil levels, and perform any other necessary services, before starting the engine.

Turn the radiator cap slowly counter-clockwise to the pressure release point to allow the pressure or any steam to escape; then press down on the cap and continue to turn until the cap is free to be removed.

Check brakes and clutch pedal for correct operation.

Reduce tipping hazards by spreading wheels as far as your work program permits.

Be sure muffler and exhaust pipe are in place so exhaust gases are discharged above the operator.

Always keep the operator's compartment clean. Keep dirt, trash, and grease from the pedals, steps, mounting handles, steering wheel, and controls.

Always carry a "Charged" fire extinguisher and a first aid kit.

Avoid loose-fitting clothing, which could catch on moving parts.

Mounting assist handles and steps are provided for your safety. Use them when getting on or off the tractor.

STARTING

Know the controls and what they do. Be in the operator's seat and fasten the seat belt. Place the transmission and all other controls in neutral before starting the engine.

Be sure power take-off lever is in the "OFF" or disengaged position before starting the engine. Make sure that the helpers or observers stand clear of the equipment.

Make sure the area is well ventilated.

DURING OPERATION

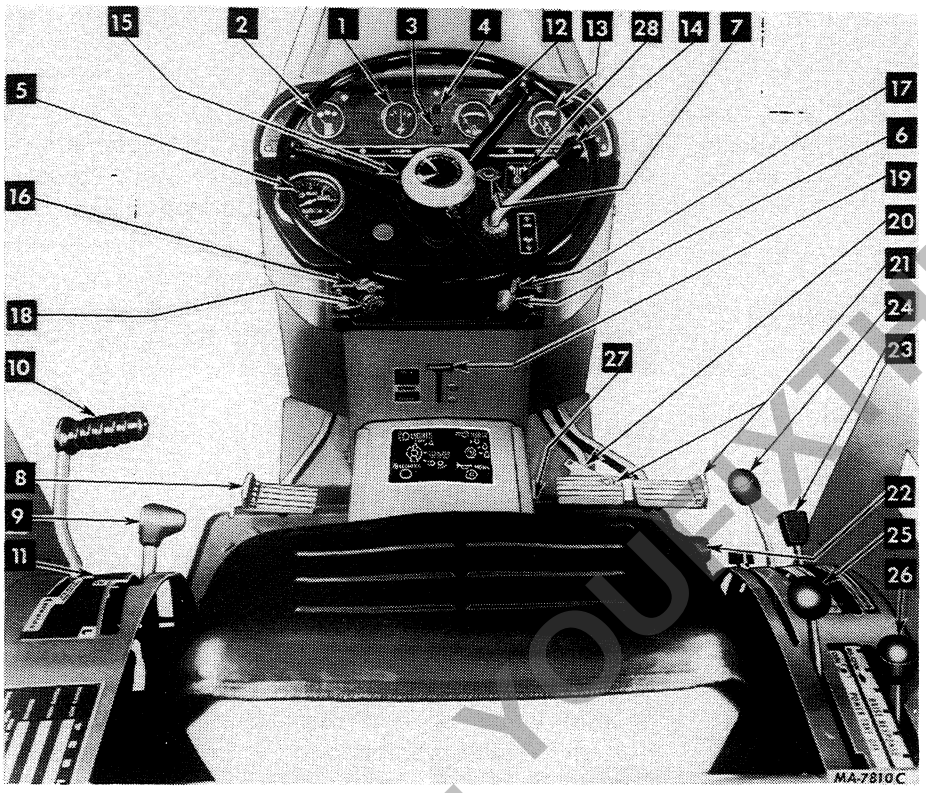
Carefully supervise inexperienced operators.

Hydraulic fluid escaping under pressure can have enough force to penetrate the skin. Hydraulic fluid may also infect a minor cut or opening in the skin. **If injured by escaping fluid, see a doctor at once.** Serious infection or reaction can result if medical treatment is not given immediately. Make sure all connections are tight and that hoses and lines are in good condition before applying pressure to the system. Relieve all pressure before disconnecting the lines or performing other work on the hydraulic system. To find a leak under pressure use a small piece of cardboard or wood. Never use hands.

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INSTRUMENTS AND CONTROLS

Before attempting to start or operate the tractor, be sure to review all the instructions for the new tractor and thoroughly familiarize yourself with the tractor instruments and controls.



Location of tractor instruments and controls.

Synchromesh transmission with clutch pedal, and transmission speed and range levers.

1 - Ammeter

2 - Fuel gauge

3 - Parking brake warning light

4 - Transmission oil pressure tellite

5 - Tachometer

6 - Horn Button

7 - Ether start push button (Diesel)

8 - Clutch pedal (Synchro-mesh transmission)

9 - Transmission speed lever (Synchromesh transmission)

10 - Transmission range lever (Synchromesh transmission)

11 - Park brake (not seen)

12 - Engine oil pressure gauge

13 - Heat indicator (coolant)

14 - Engine speed control lever

15 - Fuse holder (not seen)

16 - Lighting switch

17 - Key ignition switch

18 - Cigarette lighter

19 - Fuel control knob (Diesel) Push-pull choke control knob (Gasoline)

20 - Brake pedal latch

21 - Brake pedals

22 - Auxiliary valve operating levers

23 - Draft control lever

24 - Position control lever

25 - Independent power take-off operating lever

26 - Raise response lever

27 - Differential lock pedal (not seen)

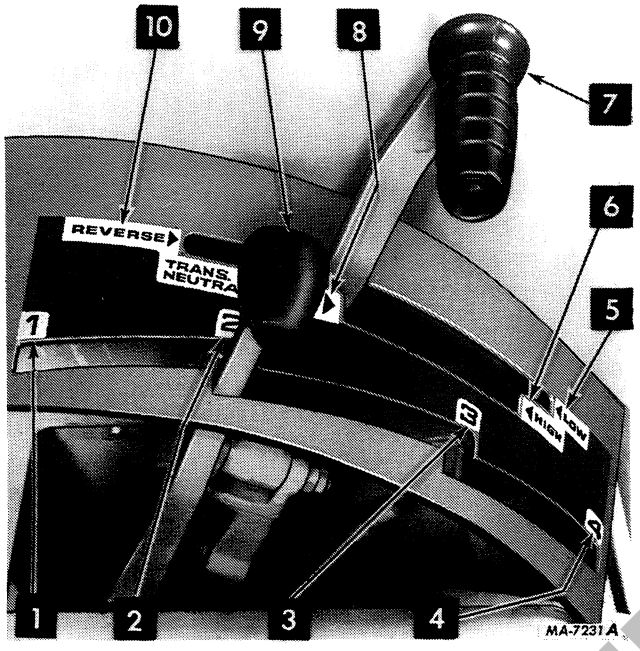
28 - Turn signal switch

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DRIVING THE TRACTOR

(Synchromesh Transmission)



1 - First speed
2 - Second speed
3 - Third speed
4 - Fourth speed
5 - Low range
6 - High range
7 - Transmission range lever
8 - Transmission range Neutral
9 - Transmission speed lever
10 - Reverse

Transmission Range and Speed Levers.

ACCELERATOR PEDAL (Optional)

The accelerator pedal is used when making frequent changes of tractor speeds. Pressing down with the foot increases the speed of the engine. The engine speed control lever should be retarded when the accelerator pedal is to be used.

STARTING THE TRACTOR

Start the engine. Refer to "Engine and Fuel System".

Advance the engine speed control lever to the low idle position.

Disengage the park brake. Hold the tractor with the brakes if necessary. Disengage the clutch.

With the clutch pedal in the disengaged position, move the transmission range lever to the desired range, "High", "Low", or the "Reverse".

The range lever must always be returned to "Neutral" before pushing it straight forward for "Low" range, straight back for "Reverse" or pulled towards the operator, at the neutral offset in the quadrant and then pushed straight forward for "High" range.

Then move the speed lever to the desired speed.

CAUTION! There is no "NEUTRAL" position provided for the transmission speed lever.

Start the tractor in motion by slowly releasing the clutch pedal and advancing the engine speed control lever to a position where the engine operates best for the load to be handled.

NOTE: The synchromesh transmission tractor has been designed with synchronizers in the transmission speed gears and therefore can be shifted with the tractor in motion by disengaging the clutch and applying a steady and continuous pressure to the speed lever until the shift is complete. Under normal conditions this action is instantaneous. Sometimes difficulty is experienced in shifting the speed lever on a synchromesh transmission when the tractor is standing still. Under these conditions the same continuous pressure should be applied to the speed lever and at the same time the clutch should be engaged slightly. This will give sufficient rotation of the synchronizer and allow the shift to be completed without difficulty. Transmission range gears should be selected when the tractor is not in motion.

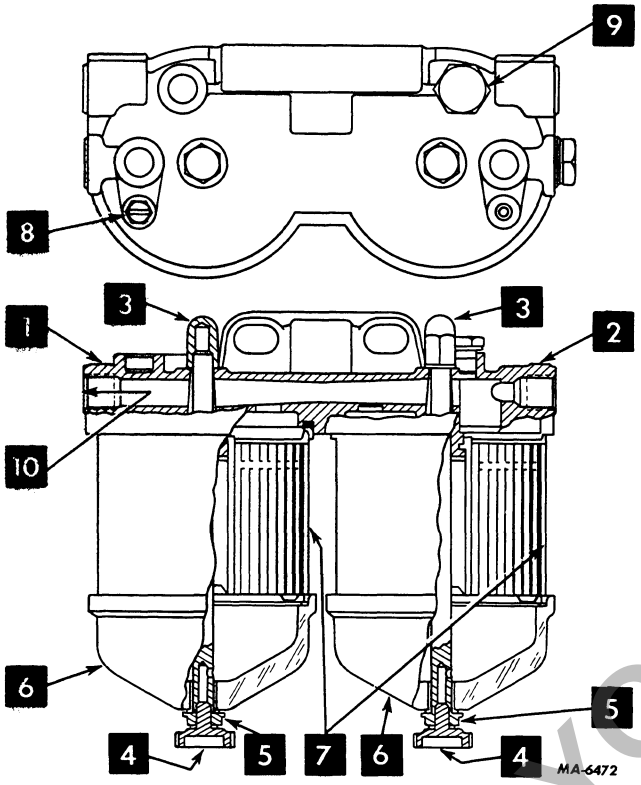
Do not "ride" the clutch or brake pedals by resting the feet on the pedals while driving the tractor because this will result in excessive wear on the linings.

DIFFERENTIAL LOCK

A pedal at the rear of the foot plate on the right side of the tractor is operated by heel pressure to engage and hold in engagement the differential

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Replacing the Primary or Final Fuel Filter Elements



1 - Final fuel filter
2 - Primary fuel filter
3 - Acorn nut
4 - Drain valve
5 - Center bolt
6 - Transparent sediment bowl
7 - Removable element
8 - Vent screw
9 - Fuel inlet
10 - Fuel outlet

Primary and final fuel filters (center bolt type).

Remove element from the base by turning and pulling it downward.

Discard the old element and install a new one.

Make sure that all gaskets are in good condition. Replace them with new ones, if necessary.

Clean and replace the sediment bowl and secure with the center bolt and acorn nut. Tighten the nut securely but do not over tighten.

Reinstall the drain valve and close the vent screw. Vent the system as described in "Venting the System".

FUEL FILTER WATER DRAIN VALVES

Drain the primary and final fuel filter daily after shut down. Open the valves at the bottom of the bowls and drain until clear diesel fuel appears. Vent when engine is not running and with a head of fuel above the top of the filter.

FUEL INJECTION PUMP AND NOZZLES

These are highly precision units and must be serviced only by your International Harvester dealer.

INJECTION PUMP GOVERNOR

The governor is an integral part of the fuel injection pump and is fully enclosed and sealed at the factory. It maintains the engine speed selected by the operator and automatically proportions the fuel to the load.

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SPECIFICATIONS

	Gasoline Engines	Diesel Engines
CAPACITIES (U.S. Measure [Metre] - Approximate)		
Cooling system	12 qt. (11.4 L)	14 qt (13.2 L)
Fuel tank	20 gal. (75.7 L)	20 gal. (75.7 L)
Crankcase pan (with filter change)	7 qt. (6.6 L)	10 qt. (9.5 L)
Transmission and differential case, with filter change	9 gal. (34.1 L)	9 gal. (34.1 L)
ENGINE		
Make and model	IH, C-200	IH, D-239
Cylinders	4	4
Bore	3.812 in (96.83 mm)	3.875 in. (98.43 mm)
Stroke	4.390 in. (111.51 mm)	5.06 in. (128.52 mm)
Displacement, cu. in.	200 (3.28 L)	239 (3.92 L)
Engine speeds, RPM		
Rated speed	2,200	2,200
High idle, approximately	2,420	2,420
Low idle, approximately	625	700
ENGINE VALVE CLEARANCE (Check at 1000 hour intervals)		
Intake	.027 in. (0.686 mm)	.010 in. (0.254 mm)
Exhaust	.027 in. (0.686 mm)	.012 in. (0.305 mm)
POWER TAKE-OFF SHAFT SPEEDS, RPM		
At 1950 RPM engine speed	544	544
At 2200 RPM engine speed for standard PTO speed	614	614
At high idle engine speed, approx.	675	675
At low idle engine speed, approx.	174	195

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PREVENTIVE MAINTENANCE GUIDE

To keep your tractor performing efficiently, it is advisable to systematically inspect the following points at intervals as outlined below.

Before Operating the Tractor

Before operating a new tractor for the first time, be sure to follow the instructions given under "Driving the Tractor". Also see "Lubrication", "Lubrication Table", and "Lubrication Guide".

After the First 10 Hours of Operation

Hydraulic fluid filter	Clean the by-pass valve screen and replace filter cartridge. Refer to "Hydraulic Fluid Filter".
Water pump, fan and alternator-generator belts	Check tension. Refer to "Water Pump, Alternator-Generator and Fan Belt Tension".
Hub clamp bolts	Check and tighten to proper torque. Refer to "Hub Clamp Bolts".

After Every 10 Hours of Operation

Cooling system	Check level of coolant in radiator. Refer to "Cooling System".
Fuel tank water drain cock (Diesel engine)	Drain off water and sediment. Refer to "Diesel Engine and Fuel System".
Lubrication points	See "Lubrication Guide".
Tires	Check pressure. Refer to "Tires".
Primary and final fuel filters	Drain off water and sediment. Refer to "Diesel Engine and Fuel System".
Radiator core and transmission oil cooler	Inspect, clean if necessary. Refer to "Cooling System".

After Every 50 Hours of Operation

Hub clamp bolts	Check tightness. See "Hub Clamp Bolts".
Water pump, fan and alternator-generator belt	Check tension; replace when necessary. Refer to "Water Pump, Alternator-Generator and Fan Belt Tension".

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