

**Hydro 100  
Tractor**

**Operators Manual**

1084273R2

Reprinted

**CASE III**



***This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about your safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.***

SB001

IF THIS MACHINE IS USED BY AN EMPLOYEE, IS LOANED, OR IS RENTED, MAKE SURE THAT THE OPERATOR UNDERSTANDS THE TWO INSTRUCTIONS BELOW.

BEFORE THE OPERATOR STARTS THE ENGINE:

1. GIVE INSTRUCTIONS TO THE OPERATOR ON SAFE AND CORRECT USE OF THE MACHINE.
2. MAKE SURE THE OPERATOR READS AND UNDERSTANDS THE OPERATOR'S MANUAL FOR THIS MACHINE.



**IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH.**

BEFORE STARTING THE ENGINE, DO THE FOLLOWING:

1. READ THE OPERATOR'S MANUAL.
2. READ ALL SAFETY DECALS ON THE MACHINE.
3. CLEAR THE AREA OF OTHER PERSONS.

LEARN AND PRACTICE SAFE USE OF MACHINE CONTROLS IN A SAFE, CLEAR AREA BEFORE YOU OPERATE THIS MACHINE ON A JOB SITE.

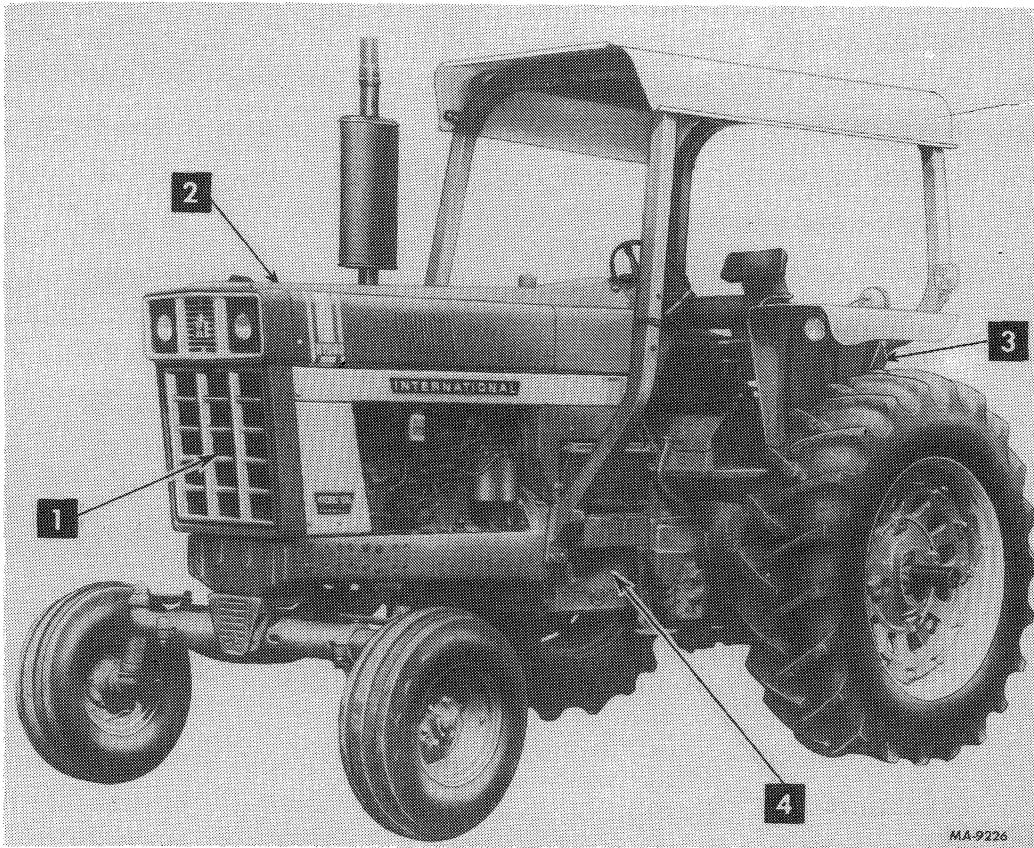
It is your responsibility to observe pertinent laws and regulations and to follow manufacturer's instructions on machine operation and maintenance.

See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

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# INTRODUCTION



1 - Front    2 - Right    3 - Rear    4 - Left

## Terms of location

**LEFT** and **RIGHT** indicate the left and right sides of the tractor when facing forward in the driver's seat.

A variety of optional equipment is available. Refer to "Optional Equipment". Operating and maintenance instruction on these items is included in the instructions for operating or maintaining the tractor. Disregard instructions for equipment not on your tractor.

These are a few facts that you should know about your hydrostatic drive tractor.

You cannot start the engine by towing the tractor, attempts to do so will damage the hydrostatic motor.

To tow the tractor, place the High-Range Selector in neutral. Refer to Towing the Tractor.

Never attempt to effect a high speed coast by putting the speed ratio control level in neutral or by depressing the Foot-N-Inch pedal.

Never coast the tractor with the engine shut-off.

The hydrostatic drive will require minimum service if recommended operating and maintenance procedures are followed. Should you have difficulties with the unit consult your International Harvester dealer.

**UNDER NO CIRCUMSTANCE SHOULD YOU ATTEMPT TO SERVICE THESE UNITS YOURSELF.** Only your dealer is authorized to repair or replace units on the hydrostatic drive under the terms of the warranty.

Change the filters at the specified interval. The 10 hour and 100 hour changes are extremely important and must not be overlooked.

# 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.

## BEFORE STARTING

A careful operator is the best insurance against an accident.

Know the controls and what they do.

When fueling an engine, keep any type of open flame away. **Do Not Smoke!** Wait for the engine to cool before refueling it.

Check brakes and Foot-n-inch pedal for correct adjustments.

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

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

Clean dirt, trash, and grease from operator's platform, pedals, steps, and steering wheel.

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

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.

Put all controls in neutral before starting the engine.

Be sure power take-off lever is in the "Off" or disengaged position before starting engine.

Before starting engine make sure helpers or observers stand clear of equipment.

Operate the engine only in well ventilated areas.

Release park brake completely.

Check overhead clearance carefully before driving under power lines, guy wires, bridges, low hanging tree branches, entering or leaving buildings, etc.

## DURING OPERATION

Power take-off master shield must always be in place on the tractor.

Use the drawbar in lowest position when hitching to a heavy load, such as manure spreaders, loaded two-wheel trailers, and heavy wagons.

Pull only from drawbar; never hitch to axle housing.

Shift transmission to neutral and set park brake before dismounting from tractor for any reason.

Always keep safety shields in place when using power take-off.

Disengage P. T. O. and shut-off the engine before adjusting or unclogging power driven machinery.

Only the operator should ride on the tractor. He should sit on the seat or stand on the platform. If the tractor has roll over protective frame or cab, sit on seat with safety belt fastened.

Keep others, especially children, from riding on steps, fenders, or drawbar, and away from tractor and equipment.

# WORK SAFELY—FOLLOW THESE RULES

## DURING OPERATION—Continued

Reduce speed before making a turn.

Always keep the tractor in gear when going down steep hills. A towed vehicle having a gross weight greater than the weight of the towing tractor must be equipped with its own brakes.

Always avoid sudden starts, excessive speed, and sudden stops.

Carefully supervise inexperienced operators.

Stop the engine before leaving the tractor.

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.

After an upset, no attempt should be made to straighten, weld, or otherwise repair the protective frame or protective cab for further service. It must be replaced in its entirety.

To assure the protection provided by design, the protective structure must not be altered by welding, cutting, drilling, or in any other manner.

**NOTE:** Do not operate the tractor or run the engine, until a thorough inspection has been made to determine that all components, controls, system, etc. are operating correctly. The tractor must be inspected for other damage, preferably, by your International Harvester dealer, and all necessary corrections made.

## TRACTORS WITH CABS

Be sure cab doors are securely latched when operating the tractor.

Always use the seat belts, if they are furnished with the unit. However, do not install seat belts if the tractor has no roll-over protective structure.

Adjust rear view mirrors for maximum vision.

Lock the cab doors, if locks are furnished, when leaving the tractor.

## TRANSPORTING

Reduce speed when traveling on rough roads.

Avoid heavily-traveled roads when moving equipment, if at all possible.

Use warning devices (ie. flags, S. M. V. emblem, lights, etc.) which are approved for use by your local government agencies, when moving equipment on public roads. Keep these devices clean and in good working condition.

When transporting equipment on the highway, it is recommended that a safety chain with a 10,500 pound gross load capacity be used.

Be sure hitches and/or drawbars are properly stabilized before towing equipment.

When moving on public roads, or from field to field, lock brake pedals together for simultaneous operation when making a stop.

Be courteous, having consideration for other traffic using the road.

## AFTER OPERATING

Wait for tractor to "Stop" before dismounting.

Lower equipment to ground before leaving tractor.

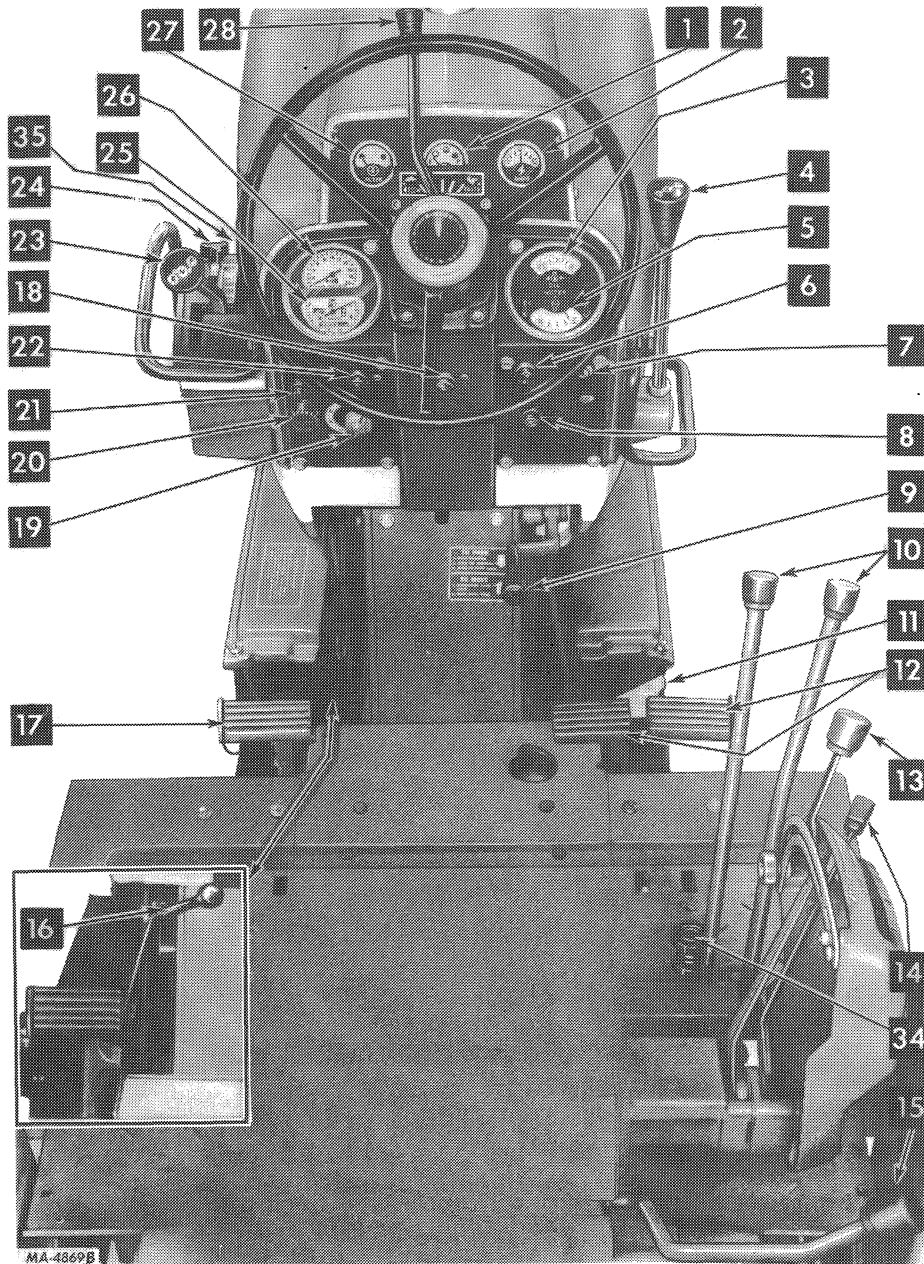
Shut off engine and remove ignition key.

Lock the park brake so tractor will not roll.

To remove radiator cap when engine is "Hot", turn cap to pressure release point - let pressure and steam escape - then remove it.

# 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.

Reference numbers for items illustrated above are listed on page 6.

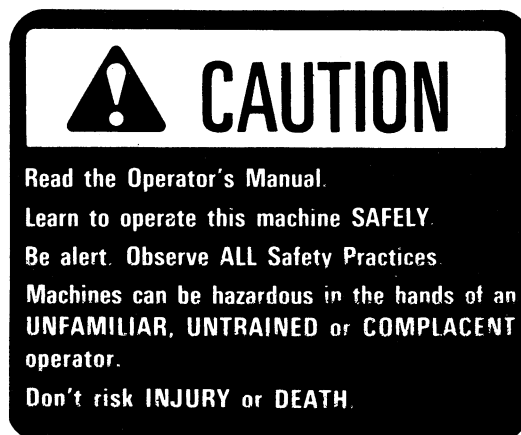
**NOTE:** For the symbols used to pictorially identify various tractor instruments and controls, refer to "UNIVERSAL SYMBOLS FOR TRACTOR INSTRUMENTS AND CONTROLS."

# INSTRUMENTS AND CONTROLS

Index to reference numbers for items shown in the illustration on page 5.

The items listed here are described on various pages in this manual. Refer to "INDEX".

- |   |  |
|---|--|
| 1 – Fuel gauge                                  | 16 – All-Wheel Drive shift lever         |
| 2 – Charge indicator gauge                      | 17 – Foot-n-inch pedal                   |
| 3 – Engine oil pressure gauge                   | 18 – Ether starting push button          |
| 4 – Hi-Lo range selector control                | 19 – Lighting switch                     |
| 5 – Water temperature gauge                     | 20 – Cigarette lighter                   |
| 6 – Transmission warning Tellite                | 21 – Fuse housing                        |
| 7 – Key switch                                  | 22 – Push button starting switch         |
| 8 – Horn button                                 | 23 – Speed ratio control                 |
| 9 – Park lock handle                            | 24 – Speed ratio control adjustable stop |
| 10 – Auxiliary valve operating levers           | 25 – Tachometer                          |
| 11 – Brake pedal latch                          | 26 – Speedometer                         |
| 12 – Brake pedals                               | 27 – Air cleaner service indicator       |
| 13 – Position (inside) control lever            | 28 – Engine speed control lever          |
| 14 – Draft control lever                        | 29 – Differential lock pedal             |
| 15 – Independent power take-off operating lever | 30 – Control quadrant light              |



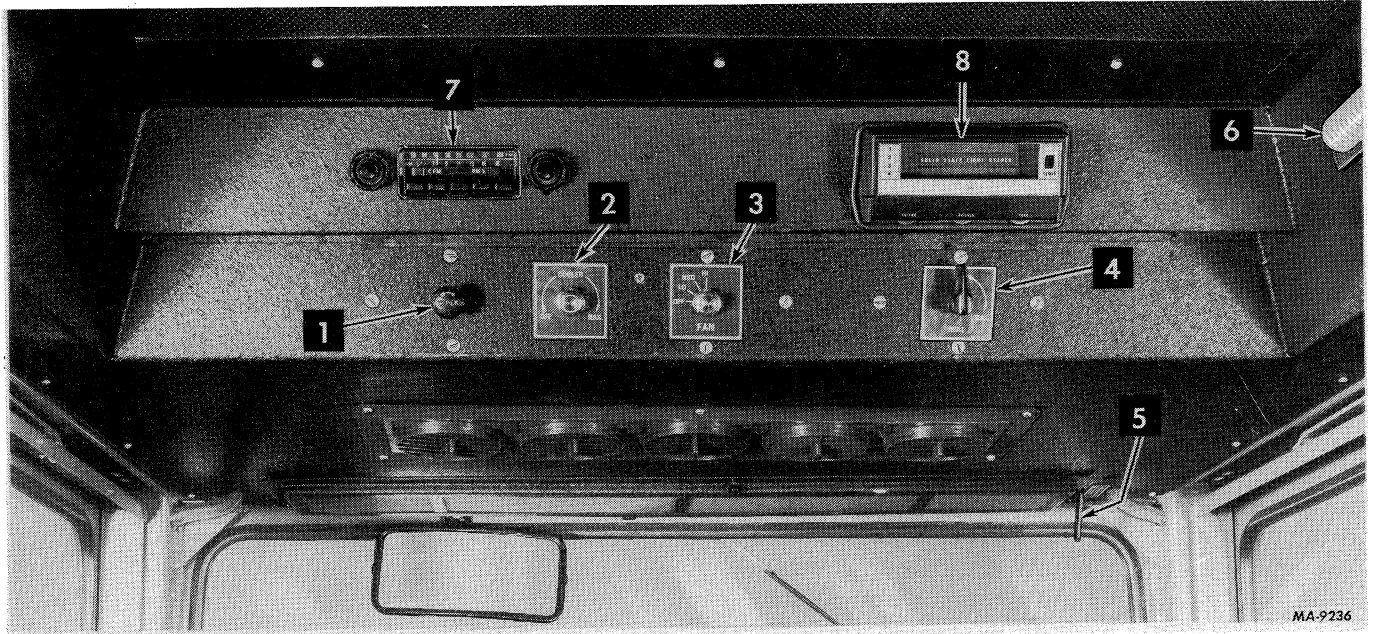
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# INSTRUMENTS AND CONTROLS

The Air Conditioner for the Cab is available for diesel tractors only.

The International 82 Lister with Fertilizer Attachment is not recommended for use with a tractor equipped with Cab.



- 1 - Windshield wiper switch
- 2 - Air conditioner switch and cold control
- 3 - Pressurizer fan speed switch
- 4 - Heater control

- 5 - Air recirculation lever
- 6 - Dome Light
- 7 - AM/FM Radio
- 8 - Eight-track stereo tape deck

## Cab controls

### OPERATING THE CAB CONTROLS

The cab has a fresh air filter and pressurizer system which when in operation provides filtered fresh air into the cab.

**NOTE:** The cab electrical system except the dome light is not on until the key switch is on.

#### Pressurizer fan and speed switch

The pressurizer fan is controlled by a three speed switch and air is directed into the cab by adjustable louvers. For maximum pressurization the switch should be in the "HI" (high) position.

#### Air Recirculation Lever

To obtain quick warm-up of air in the cab in extreme cold conditions or to obtain quick cool down of air in extreme hot weather conditions, pull the lever rearward to recirculate the inside air.

For one hundred per cent outside air, place the lever at the forward position.

#### Air Conditioner Switch and Control

The control must be in "ON" position and the temperature may be controlled as desired by the position of the control.

The pressurizer fan switch must be turned on for the air conditioner system to operate.

To help control humidity, the heater may be turned on while operating the air conditioner.

To obtain maximum cooling, move the air recirculation lever rearward.

Be sure to keep the doors closed when the air conditioner is in operation.

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