664 Diesel Tractor International

Operators Manual

1084107R1

Reprinted

CASE IH

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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.

WARNING

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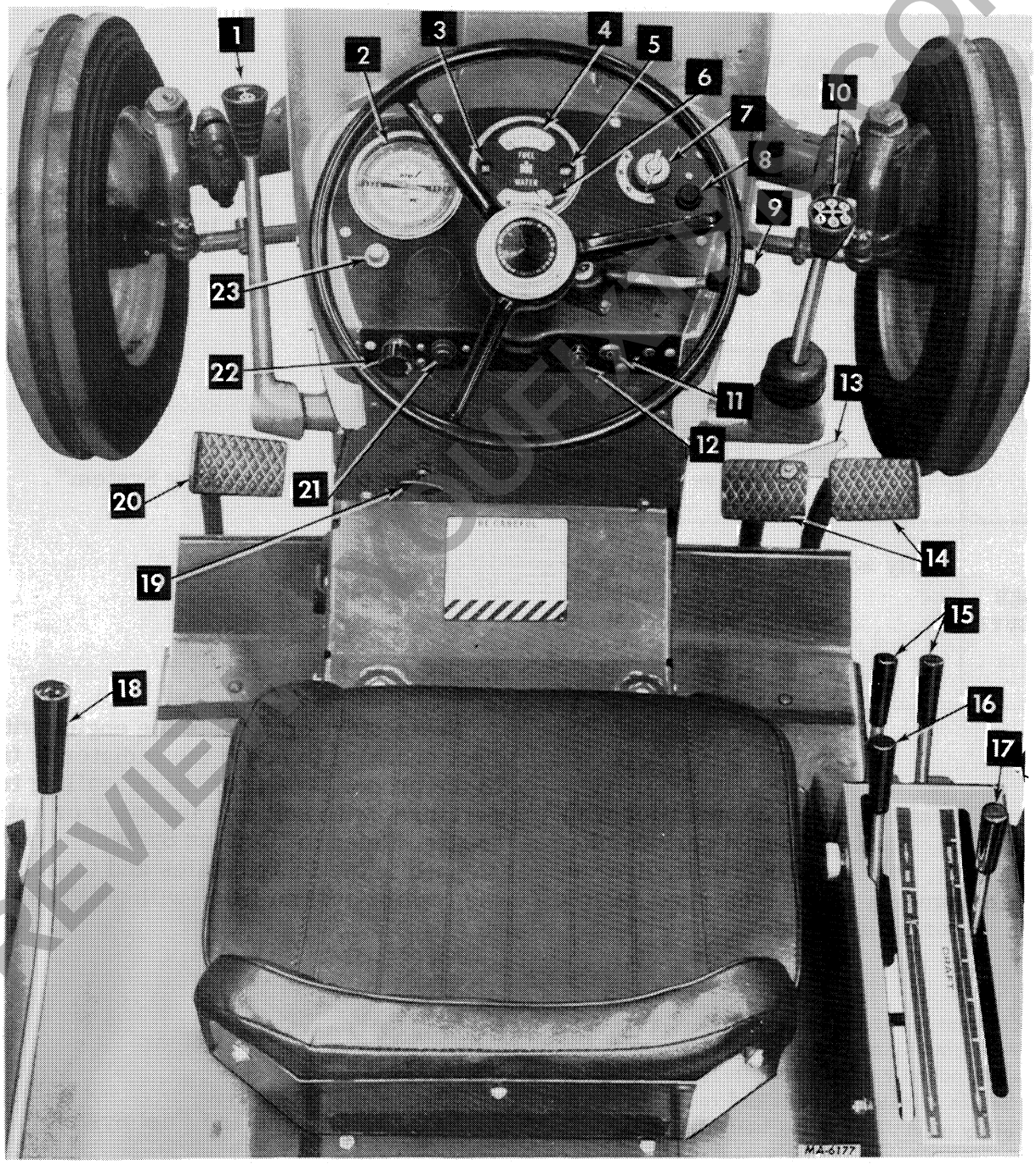
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Before attempting to start or operate the tractor, be sure to review all the instructions for the new tractor and thoroughly familiarize yourself with the tractor instruments and controls.



Illust. 5
Location of tractor instruments and controls.

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STARTING THE TRACTOR

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

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

Advance the engine speed control lever slightly.

Disengage the clutch.

With the clutch pedal in the disengaged position, move the transmission gearshift lever to the desired speed (Illusts. 5 and 8A).

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: Do not shift gears while the engine clutch is engaged or while the tractor is 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.

Always latch the brake pedals together before driving the tractor in (fifth speed). To latch the pedals together, engage the latch in back of the left pedal into the slot in back of the right pedal. See Illust. 8. When the brake pedals are not latched together, the latch should rest in the slot in back of the left brake pedal.

TORQUE AMPLIFIER (Optional)

The torque amplifier provides an optional lower gear speed in each respective transmission gear speed without interruption of engine power.

The torque amplifier clutch operating lever, located at the left of the instrument panel, allows the operator to regulate the speed of clutch engagement so that a smooth engagement may be obtained under all conditions.

The tractor can also be started in motion with the torque amplifier engaged, when pulling a heavy load. The tractor speed can be increased when under way by disengaging the torque amplifier.

To obtain a smooth shift to direct drive under light loads, the operating lever should be moved forward, hesitating at an intermediate position, then moved fully forward.

To shift to torque amplifier drive, move the operating lever rearward in a rapid manner.

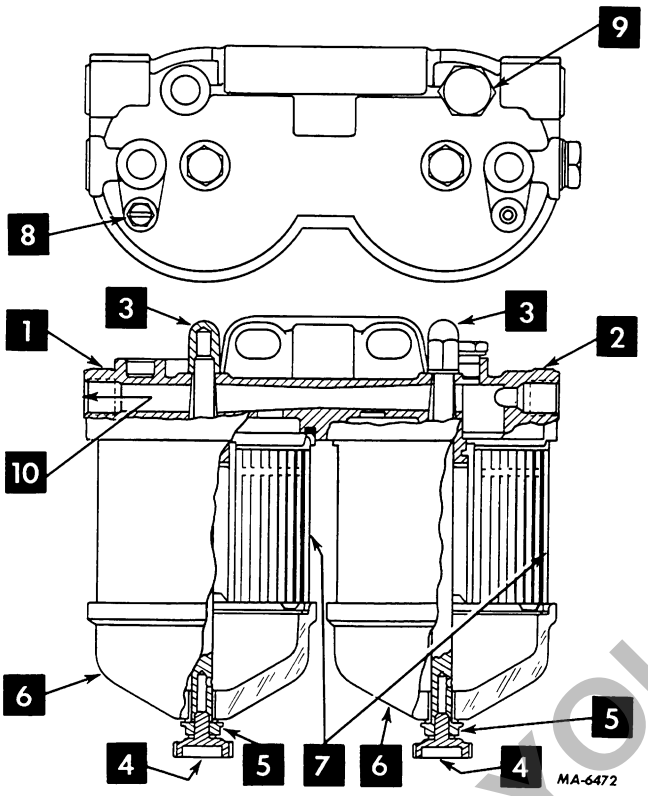
Do not allow the clutch to slip needlessly as any clutch can be damaged by excessive slippage.

Caution! To maintain safe control of tractor speed and to utilize the engine as a brake during downhill transport operation, the torque amplifier operating handle must be in the direct (fully-forward) position.

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FUEL FILTERS – Continued

Replacing the Primary or Final Fuel Filter Elements (Center bolt type)



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

Illust. 20
Primary and final fuel filters (center bolt type).

Close the fuel shut-off valve under the fuel tank. Open the vent screw and remove the drain valves at the bottom of the filters. Allow the fuel to drain. See Illusts. 12 and 20.

Unscrew the acorn nut at the top of the filter then remove the center bolt from the bottom together with the sediment bowl.

Reach inside the filter and remove the element.

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".

DRAINING WATER FROM THE TRACTOR FUEL TANK

The fuel tank shut-off valve is located on the right side of the tractor. See Illust. 11.

After allowing time for the water and sediment to settle to the bottom of the tank, open the fuel tank water drain cock and drain the tank until uncontaminated fuel appears. Then close the cock. See Illust. 11.

FUEL INJECTION PUMP AND NOZZLES

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

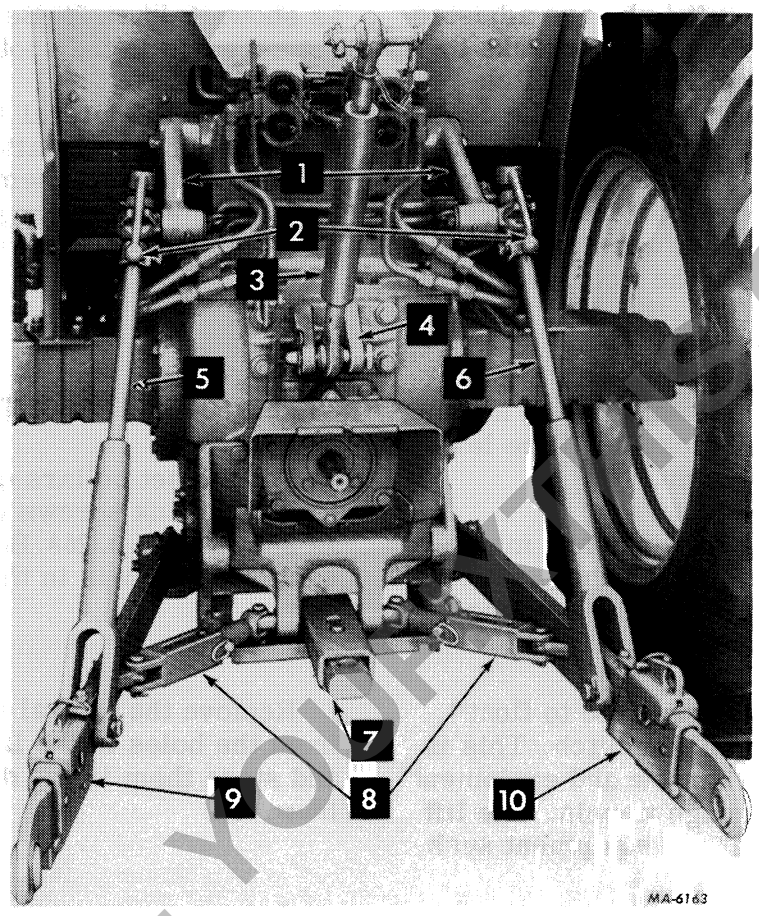
INJECTION PUMP GOVERNOR

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.

Do not attempt to adjust the governor. In case of serious trouble, see your International Harvester dealer.

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THREE-POINT HITCH



1 – Rockshaft arms
2 – Leveling screw cranks
3 – Hitch upper link
4 – Upper link attaching bracket
5 – Left lift link
6 – Right lift link
7 – Swinging drawbar in storage position
8 – Lateral limiters
9 – Left lower link
10 – Right lower link

Illust. 25
Principal parts of the three–point hitch.

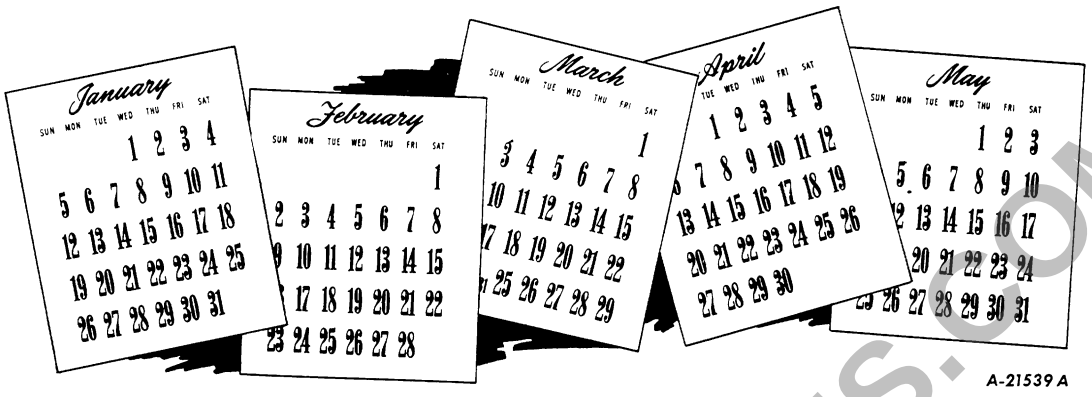
The three-point hitch, provides a fast and convenient means of attaching rear mounted equipment conforming to A.S.A.E. and S.A.E. specifications. You can mount Category II or adapt the hitch to Category I International Harvester Company three-point equipment or most three-point equipment of other manufacturers.

Note: When operating the three-point hitch, the swinging drawbar must be set in the storage position and locked in the center of the drawbar support plate with two 7/8 x 2-inch cap screws, lock washers, and nuts, to prevent damage and assure proper operation of the hitch. The swinging drawbar may be removed from the tractor, if preferred.

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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 in "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 element. 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 retainer cap screw.	Check and tighten to proper torque. Refer to "Rear Wheels"

After Every 10 Hours of Operation

Cooling system	Check level of coolant in radiator. Refer to "Cooling System".
Fuel tank water drain cock.	Drain off water and sediment. Refer to "Fuel System".
Lubrication points	See "Lubrication Guide".

After the First 50 Hours of Operation

Connection between air cleaner and manifold	Inspect for loose fit or leakage. Refer to "Air Cleaning System".

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