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4166 Tractor

Operators Manual

1084116R1

Reprinted

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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

BEFORE STARTING

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 clutch for correct adjustments.

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 exhaust pipe and extension 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

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.

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 to hitch equipment.

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

Disengage PTO and shut off the engine before adjusting or unclogging power driven machinery.

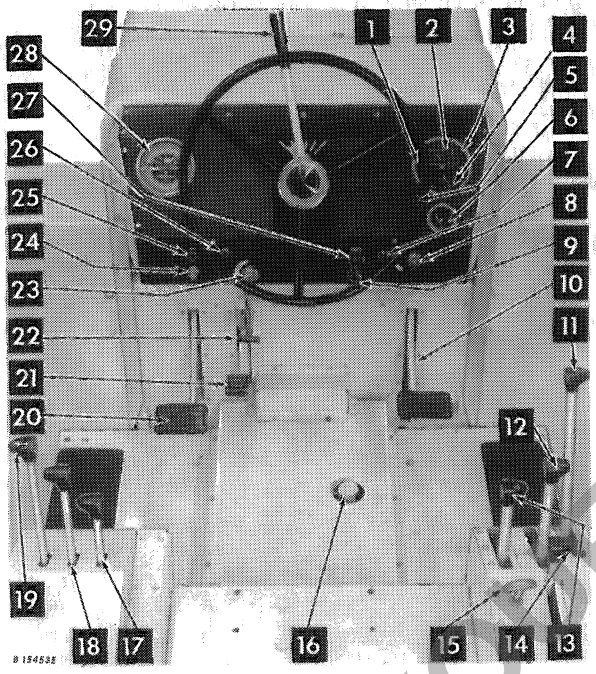
Only the operator should ride on the tractor. He should sit on the seat or stand on the platform. If the tractor has roll over protective frame, he should sit on the seat with the safety belt fastened.

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TRACTOR 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.



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Location of tractor instruments and controls.

1 - Engine oil pressure tellite

2 - Fuel gauge

3 - Alternator-generator tellite

4 - Temperature gauge

5 - Transmission oil pressure tellite

6 - Air cleaner service indicator

7 - Fuse housing

8 - Lighting switch (basic tractor lights)

9 - Ether injection solenoid control switch

10 - Service brake pedal

11 - Two wheel-four wheel steering control lever

12 - Range lever

13 - Speed lever

14 - Two wheel-four wheel drive lever

15 - Independent power take-off clutch operating lever

16 - Transmission oil level gauge

17 - Right rear coupler operating lever

18 - Left rear coupler operating lever

19 - Hydraulic drawbar control lever

20 - Clutch pedal

21 - Park brake pedal

22 - Park brake release lever

23 - Lighting switch (fender lights)

24 - Horn button

25 - Push button starting switch

26 - Key switch

27 - Cigarette lighter

28 - Speedometer-tachometer

29 - Engine speed control lever

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DRIVING THE TRACTOR

PREPARING THE TRACTOR FOR EACH DAY'S WORK

Check the level of the coolant in the radiator. See "Cooling System".

Check the oil level in the engine crankcase. Also lubricate the chassis points recommended for daily service. Refer to "Lubrication Guide" and the "Lubrication Table".

Inspect the tires for general condition. See "Steering, Wheels and Tires".

FUEL GAUGE

When the key switch is turned on, the fuel gauge indicates the level of the fuel in the fuel tank.

Note: An in-line fuse holder with AGC-1 amp. fuse located at fuel gauge receiving unit is provided to prevent damage to fuel gauge sending unit if any incorrect connection is made on fuel gauge.

It is important to use the same capacity fuse for replacement. If fuel gauge fails to function check the fuse.

Note: The key must be left in the "ON" position while the engine is running so the fuel gauge will function.

FILLING THE FUEL TANK

Caution! Never remove the fuel tank cap or fill the fuel tank when the engine is running, is hot, or when near an open flame. Do not smoke when working around inflammable fuel as the air around the tractor is mixed with highly explosive vapor. When pouring fuel, keep the container or hose nozzle in contact with the metal of the fuel tank to avoid the possibility of an electric spark igniting the fuel.

Fill the fuel tank, preferably at the end of each day's work. This will force out any moisture-laden air and prevent condensation.

Note: Do not fill the tank to its full capacity as space is required for vapor expansion in the event of a temperature change. A tank filled to capacity may overflow if exposed to a rise in temperature or direct sunlight.

The filler cap on the fuel tank has an air vent. This vent should be kept open at all times to assure proper flow of the fuel.

Before starting the tractor for each day's work, open the fuel tank water drain cock on the left, bottom side of the fuel tank to drain off water and sediment. Close the drain as soon as clean fuel appears.

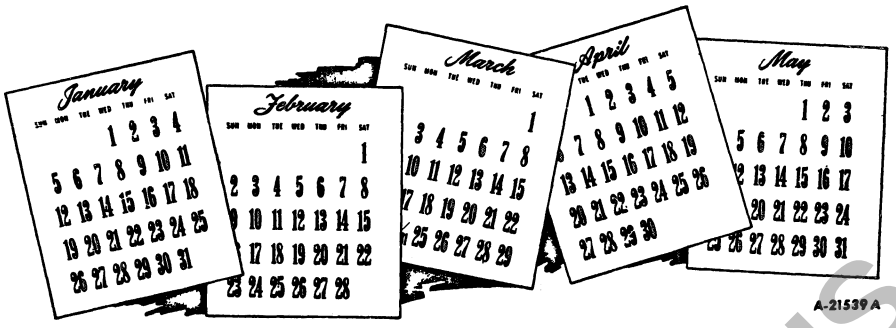
ADJUSTING THE SEAT



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Seat adjustment controls.

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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 section".

After the First 10 Tachometer Hours of Operation

Hydraulic fluid filter	Clean and replace filter element. Refer to "Hydraulic Fluid Filter".
Water pump, fan and alternator-generator belts	Check tension. Refer to "Cooling System".

After Every 10 Tachometer Hours of Operation

Air intake cap and screen	Remove and clean. Refer to "Air Cleaning System".*
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 Tachometer Hours of Operation

Flexible rubber connection between air cleaner and turbocharger	Inspect for loose fit or leakage. Refer to "Air Cleaning System".
Engine manifold bolts	Check and tighten if necessary.

*See your International Harvester dealer for this service.

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LUBRICATION TABLE

Engine oils meeting standards as shown under "Engine Oil" must be used in these engines.

Point of Lubrication	Capacity	Anticipated Air Temperature			
		Above +32° F.	32° F. To +10° F.	+10° F. To -10° F.	Below -10° F.
Diesel Engine Crankcase. Without Filter Change.	17 Qt.	IH No. 1 SAE-30‡	IH No. 1 SAE-10W	15-1/4 qts. of IH No. 1 SAE-10W, plus 1-3/4 qts. kerosene	13-1/2 qts. of IH No. 1 SAE-10W, plus 3-1/2 qts. kerosene
With Filter Change	20 Qt.			18 qts. of IH No. 1 SAE-10W, plus 2 qts. kerosene	16 qts. of IH No. 1 SAE-10W, plus 4 qts. kerosene
Point of Lubrication		Lubricant			
Transmission	12 gal.*	IH Hy-Tran® Fluid If fluid is used which does not meet requirements of IH B-6 Specifications, International Harvester Company will not be responsible for substandard performance of transmission and hydraulic components. NOTE: Failures due to use of improper fluid are not covered by warranty -- FOR MAXIMUM PROTECTION USE IH HY-TRAN FLUID".			
Differentials Front and Rear	20 qts. each	Use IH 135H EP gear lubricant or equivalent SAE-90 multi-purpose gear lubricant (sulfur phosphorus type). Lubricant must meet MIL-L-2105B specification and be classified API-GL-5.			
Tractors w/PTO	24 qts. (Rear Only)				
Wheel ends	5 qt. each				
Lubrication fittings	xxx	Use IH 251H EP grease or equivalent #2 multi-purpose lithium grease for fittings on which the hand lubricator is applied.			

* When remote cylinders are used, additional fluid must be added to bring the level up to the "FULL" mark.
Add one gallon when equipped with Independent Power Take-Off.

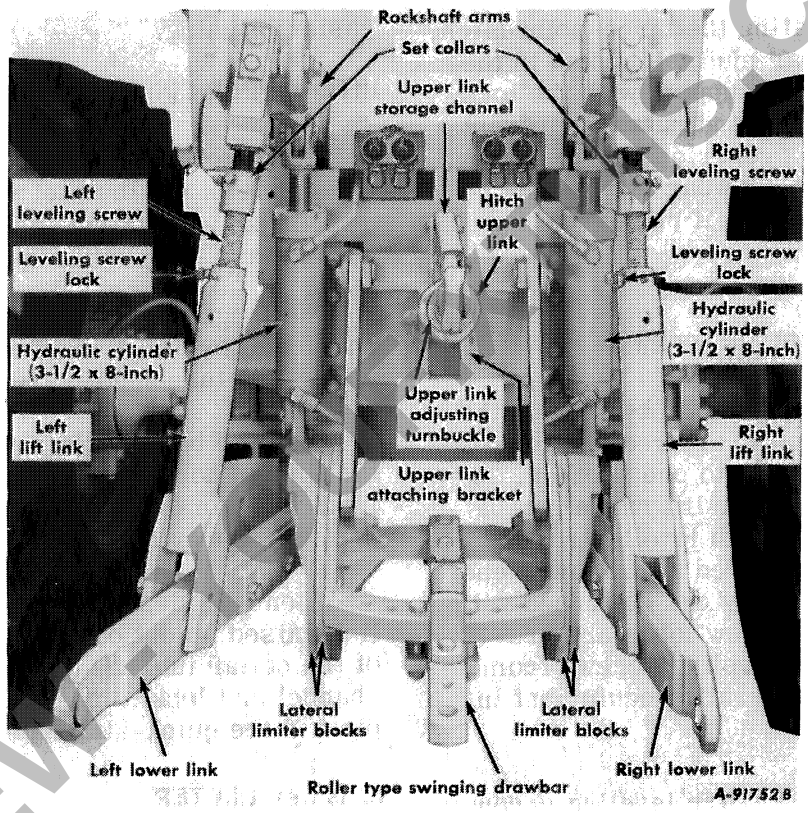
‡ Do not substitute SAE-10W-30 or 10W-40.

NOTE: When the tractor is to be used for steep angle operation, add one gallon to the transmission.

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THREE-POINT HITCH



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Principal parts of the three-point hitch with roller type swinging drawbar.

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