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Farmall 460, 560 & International 560 Tractors

Operators Manual

1014051R7

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.

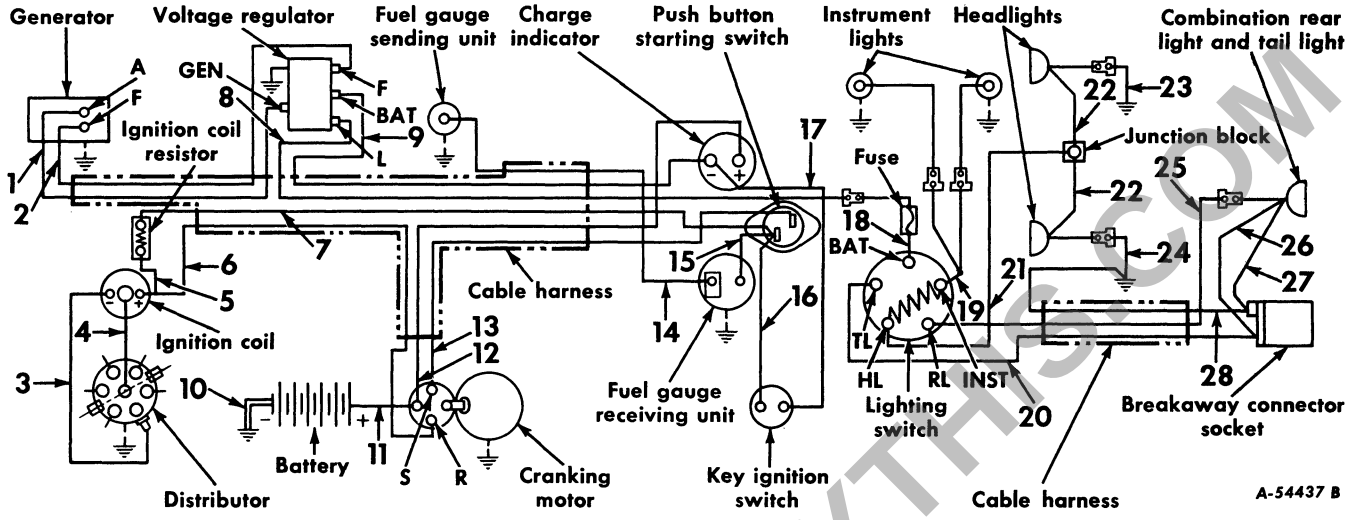
See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

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Illust. 44

Schematic wiring diagram for Farmall 460 and 560 Tractors.

Ref. No.	Description	Ref. No.	Description
1	Cable—regulator "GEN" terminal to generator "A" terminal (light blue).	15	Cable—push button starting switch to fuel gauge receiving unit.
2	Cable—regulator "F" terminal to generator "F" terminal (yellow).	16	Cable—push button starting switch to ignition switch.
3	Cable—coil to distributor (primary).	17	Cable—charge indicator to key ignition switch.
4	Cable—coil to distributor (secondary).	18	Cable—fuse housing to lighting switch.
5	Cable—coil to resistor.	19	Cable—lighting switch to instrument panel lights.
6	Cable—solenoid switch to coil (natural).	20	Cable—break-away connector socket and tail light to lighting switch (black).
7	Cable—push button starting switch to ignition coil resistor (black).	21	Cable—lighting switch to junction block.
8	Cable—regulator "L" terminal to fuse housing (light green).	22	Cable—head light to junction block (black).
9	Cable—charge indicator to regulator "BAT" terminal (gray).	23	Cable—right headlight to ground (ground on steering shaft housing right rear mounting bolt).
10	Strap—battery to ground (ground on steering shaft housing support left rear mounting bolt).	24	Cable—left headlight to ground (ground on steering shaft housing left rear mounting bolt).
11	Cable—battery to solenoid switch.	25	Cable—combination rear light to lighting switch (red).
12	Cable—charge indicator to solenoid switch (red).	26	Cable—combination rear light and break-away connector socket (long).
13	Cable—push button starting switch to solenoid switch (orange).	27	Cable—combination rear light and break-away connector socket (short).
14	Cable—fuel gauge receiving unit to fuel gauge sending unit (dark blue).	28	Cable—combination rear light and break-away connector socket ground terminal to ground (pink).

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REAR WHEELS
Farmall 460 and 560 Tractors

Farmall 460 and 560 Tractors may be equipped with pneumatic tire or steel rear wheels with spade lugs. Pneumatic tire rear wheels are equipped with demountable double-bead rims or power-adjusted wheels and rims for 12.4-38 (11-38), 13.6-38 (12-38), 13-38, or 15.5-38 agricultural or cane and rice-type tires, as ordered with the tractor.

Tread Adjustments with Double-Bead Rims (Pneumatic Tire Rear Wheels)

These double-bead rims permit suitable tread adjustments when going from plowing to cultivating operations, or vice versa, without removing the wheels from the axles.

When observing the rear wheels on your tractor, you will note that the rim is held to the wheel by eight clamps which engage in a raised bead around the inside of the rim. The clamps may be bolted to either side of the wheel and will engage either of the two beads in the rim.

Various tread widths are obtained on tractors equipped with the standard or heavy-duty rear axles by using the assembly combinations shown *in Illust. 30,* and by sliding the wheels in or out on the axles.

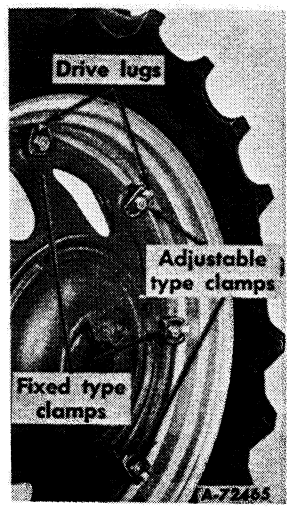
Farmall 460 and 560 Hi-Clear Tractors with double-bead rims are equipped with 12.4-38 (11-38), 13.6-38 (12-38) or 13-38 agricultural or cane and rice-field type tires. The following treads may be obtained by using the beads of the rim in combination with the rim clamps as shown in table below.

Inner Bead		Outer Bead	
Clamp Inside	Clamp Outside	Clamp Inside	Clamp Outside
70″	74″	62″	66″

Note: When reversing pneumatic tire rear wheels, make sure that the tires rotate in the direction shown by the arrow on the side of the tires. It may sometimes be necessary to change them from one side of the tractor to the other.

Assembling Rear Wheel Double-Bead Rims

The rear wheel rims are held in place with two fixed clamps and six adjustable clamps. When assembling the rim on the wheel, be sure the two fixed clamps are assembled at 90 degrees to each other and are engaged over two of the four drive lugs or in the drive lug depressions (depending on the type of rim) and tighten the clamp bolts to from 170 to 190 foot pounds torque. Then assemble the six adjustable clamps and be sure that two of these clamps engage with the two other drivers. Tighten all of the adjustable clamp bolts securely and equally in consecutive order to from 170 to 190 foot pounds torque to prevent possible misalignment or slippage. Check all clamp bolts frequently and keep them tightened to the proper foot pounds torque. *See Illusts. 30 and 31.*



Illust. 30

Fixed clamps assembled over drive lugs at 90 degrees to each other.

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BEFORE STARTING YOUR NEW TRACTOR

Pneumatic Tires

Before moving the tractor, check the air pressure in the pneumatic tires and inflate or deflate the front and rear tires to the correct operating pressures. See the table *on page 40.*

Rear Wheel Hub Clamp Bolts

Farmall 460 and 560 Tractors

Before operating the tractor, check the rear wheel hub clamp bolts to make certain that they are torqued to 390-460 foot-pounds.

Tighten the rear wheel hub clamp bolts alternately and a little at a time to prevent excessive tension at any location.

Hub Retainer Cap Screws

International 560 Tractors

Before starting the tractor, check the hub retainer cap screws, on the end of each rear axle, to be sure that they are tightened to a torque tightness of 280-320 foot-pounds.

Steel Wheels

If your tractor is equipped with steel wheels, or has new wheel and lug installations, it is advisable to check and tighten the rear wheel bolts at intervals to be sure that the lugs seat properly.

Engine Cooling System

Be sure the radiator drain and crankcase water drain *(Illust. 46A)* are closed; then fill the radiator to a level approximately 2¼ inches below the top of the filler neck. Filling the radiator to this level will allow for expansion of the coolant under normal operating conditions. Use clean water; soft or rain water is recommended, as it does not contain alkali, which forms scale and eventually clogs the passages.

Never start or operate the engine without water or antifreeze in the cooling system except as instructed in "Cold Weather Precautions" *on page 47.*

For further information see "Cooling System" *(page 46),* and the tractor Preventive Maintenance Manual. If the tractor is to be operated in freezing temperatures (+32° F. or lower) see "Cold Weather Precautions" *on page 47.* For cooling system capacity, see "Specifications."

Fuel System

Before attempting to use a fuel for which your tractor is not designed, see your International Harvester dealer or the nearest International Harvester Company District Office for full details.

International Harvester gasoline burning engines are specifically designed for use with regular grade gasoline having a 90 minimum octane rating (Research Method—approximately 84 Motor Method).

To obtain best results, use the fuel for which the tractor is designed, follow the operating instructions given for that fuel and observe the following precautions:

Use clean fuel and keep it clean. Store fuel in tanks equipped with hose and nozzle to prevent contamination of the fuel. The use of funnels, cans and drums is not recommended because they are difficult to keep clean.

Battery-to-Ground Strap

Tractors shipped from the factory with starting and lighting equipment have the battery-to-ground strap disconnected at the battery, coiled, and secured to the tractor. Therefore, before attempting to start the engine, be sure the battery-to-ground strap is connected to the battery and to the ground.

Instruments and Controls

Thoroughly acquaint yourself with all instruments and controls as described *on pages 5 to 9.*

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OPERATING A GASOLINE ENGINE

Starting the Engine



When starting the engine in a barn or garage, keep the doors wide open because exhaust gases from internal combustion engines contain poisonous carbon monoxide which is odorless, tasteless and colorless.

1. Put the gearshift lever in the neutral position. *See Illust. 8.*

2. Pull the choke control button out all the way.

Note: Avoid overchoking as excessive use of the choke will flood the engine, making it hard to start. The use of the choke for starting will vary, depending on temperature and altitude.

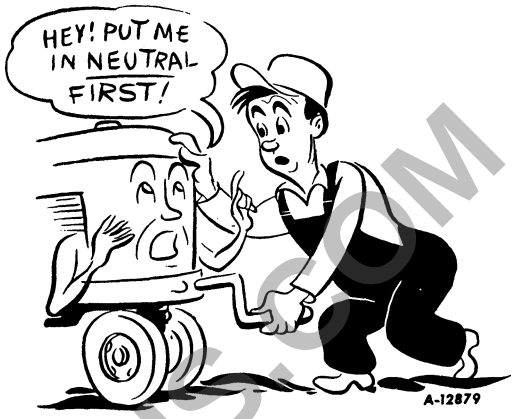
3. Advance the engine speed control lever to the third indicator point down from "LO." *See Illusts. 6 or 7.*

4. Disengage the engine clutch.

5. Turn the ignition key clockwise to a horizontal position. Press the push button starting switch (*Illusts. 6 or 7*) and release it as soon as the engine starts; however, do not operate the cranking motor for more than 30 seconds at any one time. If the engine does not start within this time, release the push button starting switch and wait a minute or two; then try again.

Important! Never operate the cranking motor while the engine is rotating.

6. Slowly release the clutch after the engine starts.



Be sure the gearshift lever of the tractor is in neutral before starting the engine.

Caution! When hand cranking the engine, be sure the gearshift lever is in the neutral position. Always stand in a position that will eliminate any possibility of being struck by the starting crank if there is a reversal of the direction of the engine. Crank the engine by using quick upstrokes; do not spin it.

After the Engine Starts

As soon as the engine starts, adjust the choke to a point where the engine operates without missing and, as the engine warms up, open the choke all the way by gradually pushing the choke control button all the way in. Do not use the choke to enrich the fuel mixture except when starting the engine.

Immediately after the engine starts, check the oil pressure gauge (*Illust. 9*) to make sure lubricating oil is circulating through the engine. If it is not, stop the engine and inspect the oil system to find the cause of failure.

If unable to find the cause, consult your International Harvester dealer before operating the engine.

Stopping the Engine

Retard the engine speed by pushing the control lever all the way up to "LO" (*Illusts. 6 or 7*). Allow the engine to cool slowly from full-load operation by slowly idling the engine for a short time. Then turn the key counterclockwise to the off position to stop the engine. It is advisable to close the gasoline shut-off valve if the engine is to be stopped for any length of time.

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