



International Harvester Operator's Manual 666

Operator's Manual

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CAUTION

Read the Operator's Manual.

Learn to operate this machine SAFELY.

Be alert. Observe ALL Safety Practices.

Machines can be hazardous in the hands of an UNFAMILIAR, UNTRAINED or COMPLACENT operator.

Don't risk INJURY or DEATH.

INTRODUCTION



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

Terms of location.

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

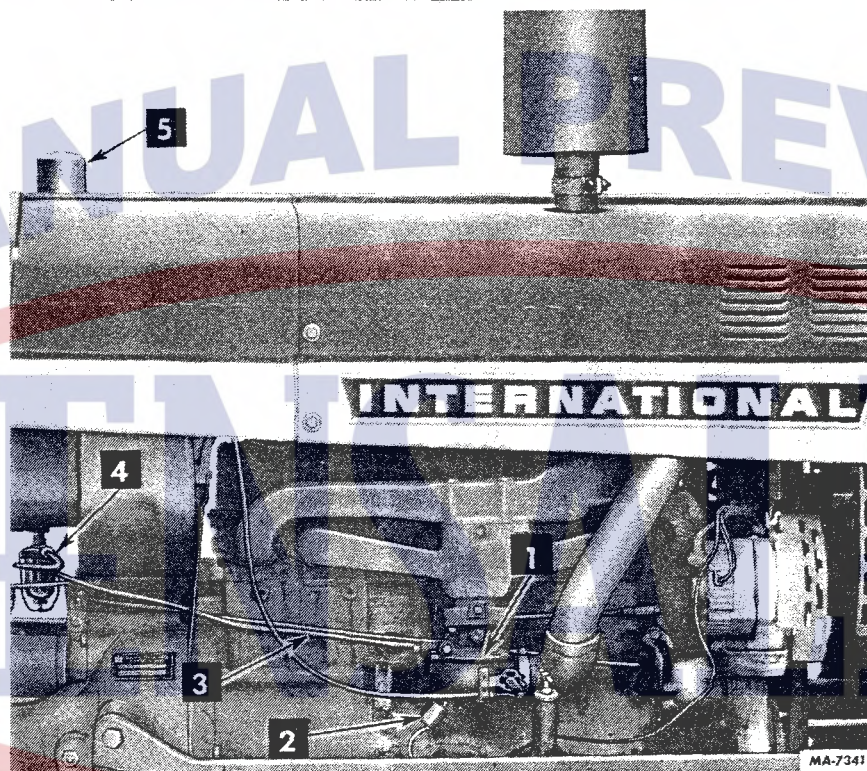
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A variety of optional equipment is available. Refer to "Optional Equipment". Operating and maintenance instruction on these items is included in the instructions for operating or maintaining the tractor. Disregard instructions for equipment not on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

GASOLINE ENGINE AND FUEL SYSTEM

This engine is designed to operate on leaded gasoline with a 93 minimum octane rating or an unleaded or low lead gasoline with a 91 minimum octane rating (Research Method). The use of unleaded gasoline will lengthen spark plug and valve life, maintain engine performance longer, and reduce rust and corrosion of engine while stored.



- | | |
|--------------------------------|------------------------|
| 1—Carburetor | 4—Fuel strainer |
| 2—Fuel Shut-off solenoid valve | 5—Fuel tank filler cap |
| 3—Choke control wire | |

Fuel system at right side of engine.

STARTING THE ENGINE

Put the transmission range lever in the neutral position.

Pull the choke control button all the way out.

The use of the choke for starting will vary, depending on temperature and altitude.

Advance the engine speed control lever one-half.

Depress the engine clutch pedal completely which also closes the safety starting switch.

Turn the ignition key clockwise to a horizontal position. Then press the push button starting switch 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, wait one minute, and then try again.

When the engine starts, check the engine oil pressure telltale. If there is no oil pressure (flashing telltale), stop the engine immediately and investigate the problem.

If there is oil pressure, slowly release the clutch pedal after the engine starts.

If the engine fails to start after following the starting procedure, see your International Harvester dealer.

NOTE: Never operate the cranking motor while the engine is operating.

GASOLINE ENGINE AND FUEL SYSTEM

AFTER THE ENGINE IS RUNNING

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.

Check the alternator-generator tellite and the engine oil pressure tellite. Refer to the "Electrical System".

STOPPING THE ENGINE

To prevent excessive loss of coolant in the cooling system due to expansion after heavy-load operation at high ambient temperatures, the engine should be run at high idle until the temperature gauge reaches its lower normal position before stopping. To stop the engine, retard the engine speed by moving the control lever all the way up to the low idle position. Then turn the ignition key counterclockwise to the "OFF" position. It is advisable to close the gasoline shut-off valve if the engine is to be stopped for any length of time.

NOTE: When the engine is not operating or the engine has stalled and the operator leaves the tractor, the key must be turned to the "OFF" position to prevent battery discharge.

CLEANING THE FUEL STRAINER AND SEDIMENT BOWL

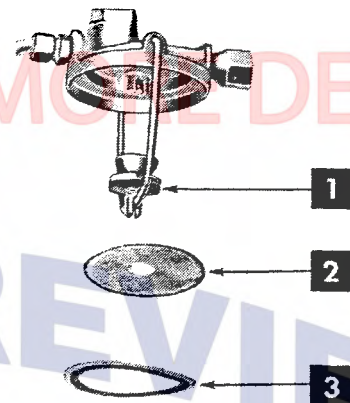
Clean the fuel strainer and sediment bowl after every 250 hours of operation. To do this, proceed as follows:

Close the fuel shut-off valve.

Take the strainer apart by loosening the nut holding the sediment bowl.

Clean the sediment bowl and clean the screen if necessary.

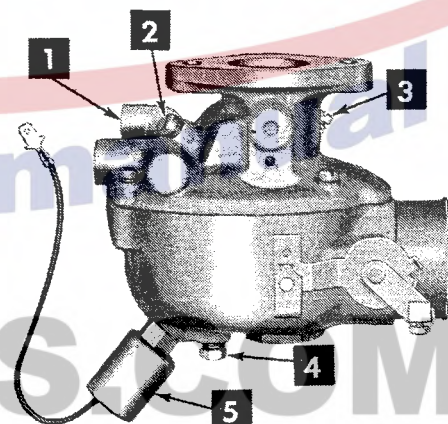
When reassembling, be sure the gasket between the bowl and the main body is in good condition and does not leak. Use a new gasket if necessary.



- 1—Nut
- 2—Screen
- 3—Gasket
- 4—Bowl

Fuel strainer showing the glass bowl removed for cleaning.

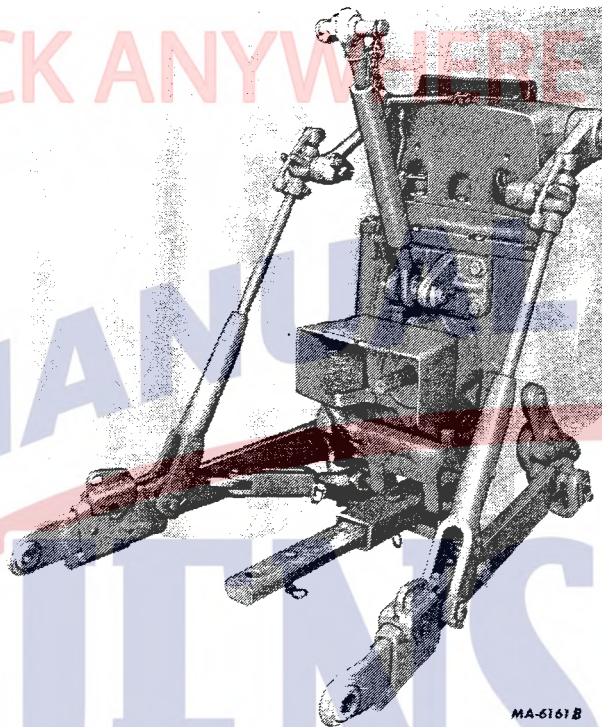
CARBURETOR



- 1—Fuel line fitting
- 2—Idle adjusting needle screw
- 3—Throttle idle stop screw
- 4—Drain plug
- 5—Solenoid fuel shut-off valve

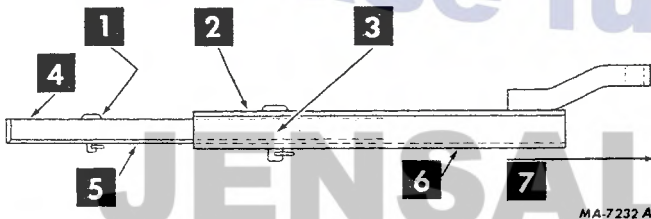
Carburetor adjustment.

HITCHING TRAILING EQUIPMENT TO THE TRACTOR



Three-point hitch with telescoping-type swinging drawbar in extended position.

On tractors with the three-point hitch, the slideable bar of the telescoping-type swinging-type drawbar, when in the extended positions, provides the standard hitch distance from the end of the power take-off shaft to the center line of the hitch hole for power take-off operation of trailing-type equipment.



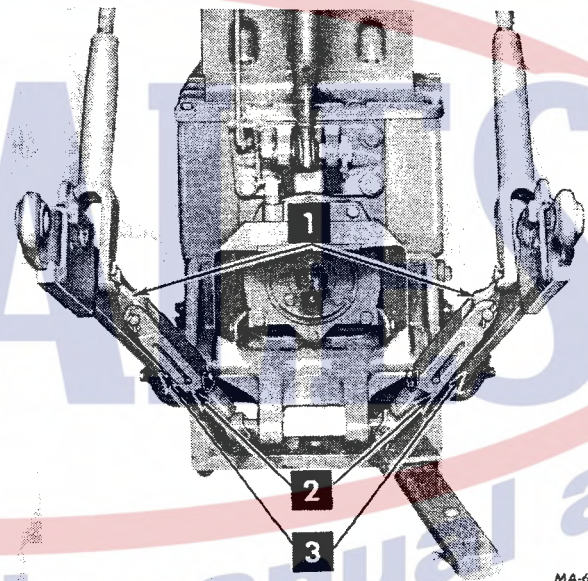
- 1 — Pin for storage position
- 2 — Pin hole for storage position
- 3 — Pin hole for 540 r.p.m. P.T.O.
- 4 — Hitching hole
- 5 — Drawbar
- 6 — Channel
- 7 — Front of tractor

Telescoping-type swinging drawbar on tractors with three-point hitch.

The slideable bar of the telescoping-type swinging drawbar has two holes in its forward end. With the 540 r.p.m. power take-off, place the larger headed pin through the second hole from the forward end of the slideable bar to obtain the standard 14-inch hitch distance.

NOTE: The swinging drawbar must be locked in the center position for power take-off operation of trailing-type equipment.

Lock the telescoping-type swinging drawbar in the center position, using the existing hardware.



- 1 — Eye bolts
- 2 — Lateral limiters
- 3 — Lower links

CROSS DRAWBAR

NOTE: The cross drawbar is not to be used with power take-off equipment.

When using the cross drawbar for the first time, assemble the left and right lower link lockout brackets at the tapped holes in the left and right rear corners of the tractor rear frame and three cap screws and lock washers and tighten securely.

FRONT WHEELS

The front wheel tread is approximately 8-inches with the concave sides turned in. With the concave sides out the tread is 16-inches.

Loosen the bolts holding axle extension clamps "A" and remove pin "B" on each side.

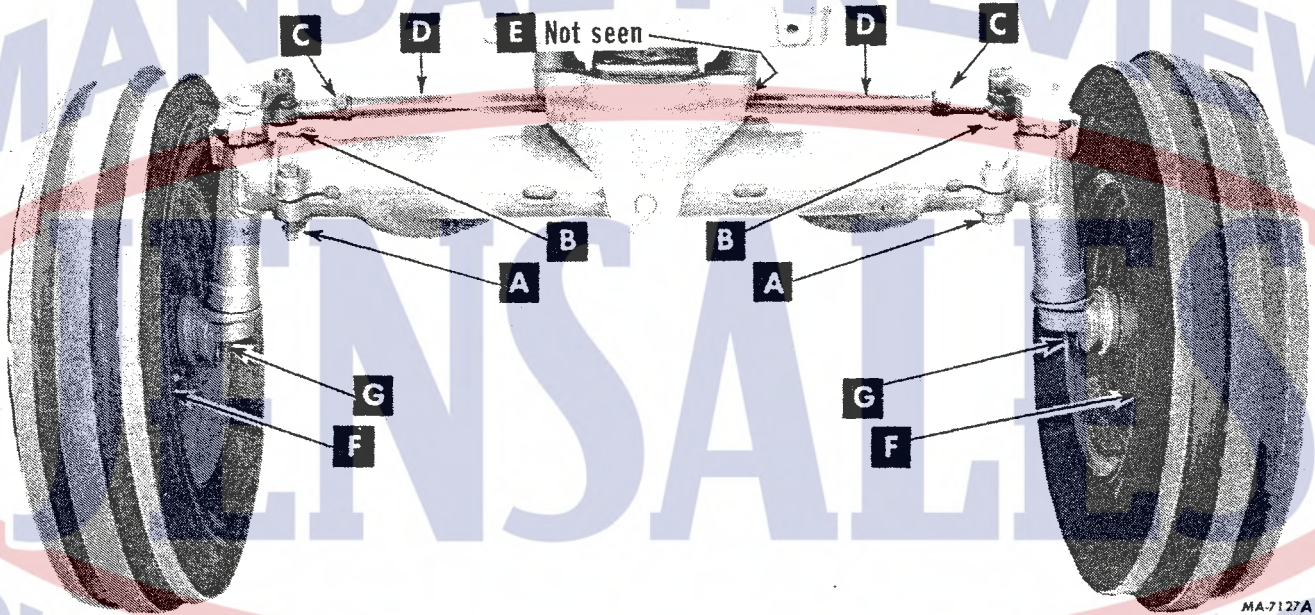
Remove the bolts from the rod clamps "C".

ADJUSTING WIDE-TREAD FRONT AXLE AND FARMALL HI-CLEAR ADJUSTABLE FRONT AXLE FOR TREAD WIDTHS

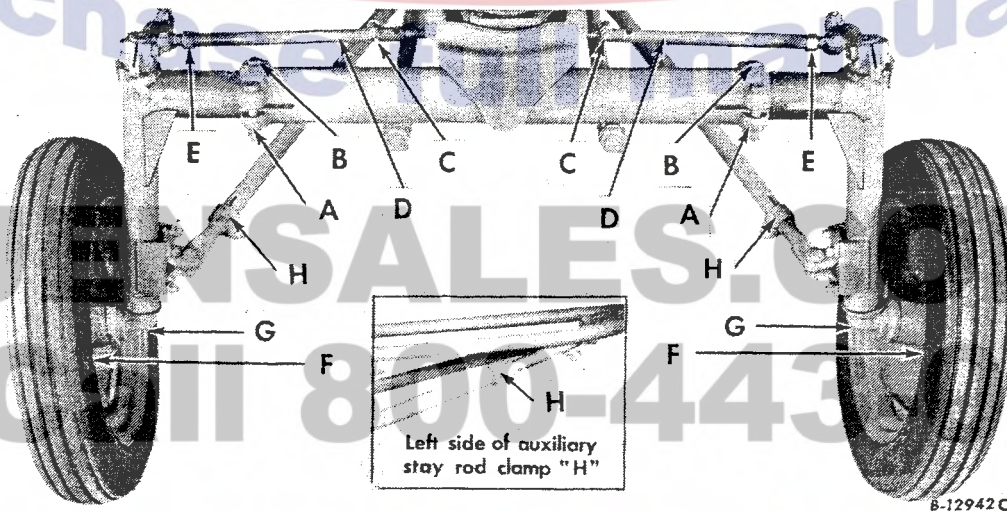
Raise the front end of the tractor.

Farmall Hi-Clear Tractors

Remove the bolts from the auxiliary stay rod clamps "H" which hold the slotted rod ends.



Front view showing points of adjustment.



Farmall Hi-Clear Tractor adjustable wide-tread axle.

Move the axle extensions an equal distance on both sides to the desired tread position and move the tie rods to correspond. Also move the auxiliary stay rods to correspond.

Farmall Hi-Clear Tractors

Also move the auxiliary stay rods to correspond.

WEIGHTS

If additional weight is desired, a second set of weights can be attached to the first weights by using four type 5 bolts 1/2 x 4-inch, flat washers, lock washers, and nuts at "B".

Before attaching the second front wheel weights, it is necessary to remove two bolts from each first weight and replace them with the longer bolts provided with the second weights. When the second weights are removed, replace the two shorter bolts in each first weight.

REAR WHEEL WEIGHTS (TWO-PIECE)

Two-piece rear wheel weights (each half weighing approximately 75 pounds) can be attached to each drive wheel to reduce slippage and increase drawbar pull. Either two, four, or six pieces can be attached to each drive wheel. The increase in drawbar pull with a proportionate reduction in slippage varies with the type of soil.

The first set of rear wheel weights consists of a set of four pieces, eight square head bolts 3/4 x 4-inch and sixteen lock washers and nuts for attaching the weights to the wheels.

The second or third set of rear wheel weights consists of a set of four or six pieces and eight square head bolts 3/4 x 3-1/4-inch and sixteen lock washers and nuts for attaching the second or third set of weights.



First, second and third set of rear wheel weights mounted on cast rear wheel.

LIQUID BALLAST WEIGHT IN REAR TIRES

Tire Size	Valve level fill (gallons)	Weight in Tire (pounds)	
		Ballasted with water only	Ballasted with salt solution *
13.6-38	57	475	581
14.9-38	63	525	640
15.5-38	66	550	663
16.9-34	81	676	829
18.4-34	100	833	1015

*—Solution weighing 10.15 lbs. per gallon (3.5 lbs. of type 1 calcium chloride flake per gallon of water). Freezing point of this solution is solid at -52°F, slush free at -12°F.