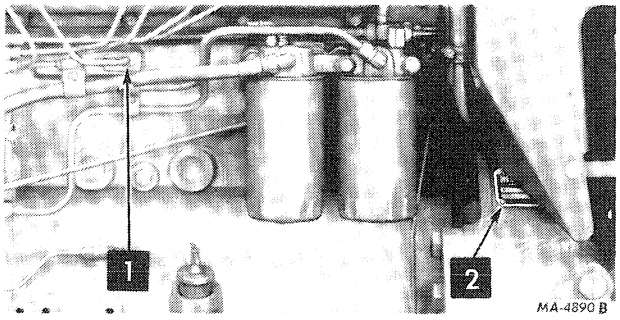
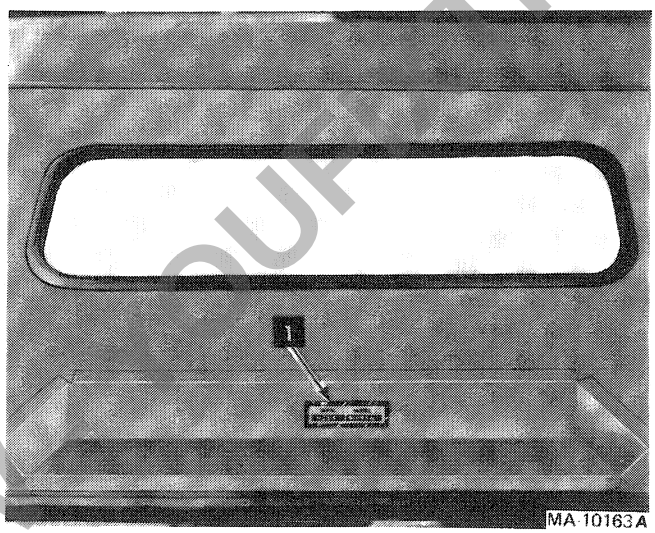
SERIAL NUMBERS



1 - Diesel Engine Serial Number
D-414 _____

2 - Tractor Serial Number

_____



1 - Protective can serial number (behind seat)
Serial Model

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THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

M171B

If Safety Decals on this machine use the words **Danger, Warning or Caution,** which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation which if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates an potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as  and  if used, are RED.

WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.

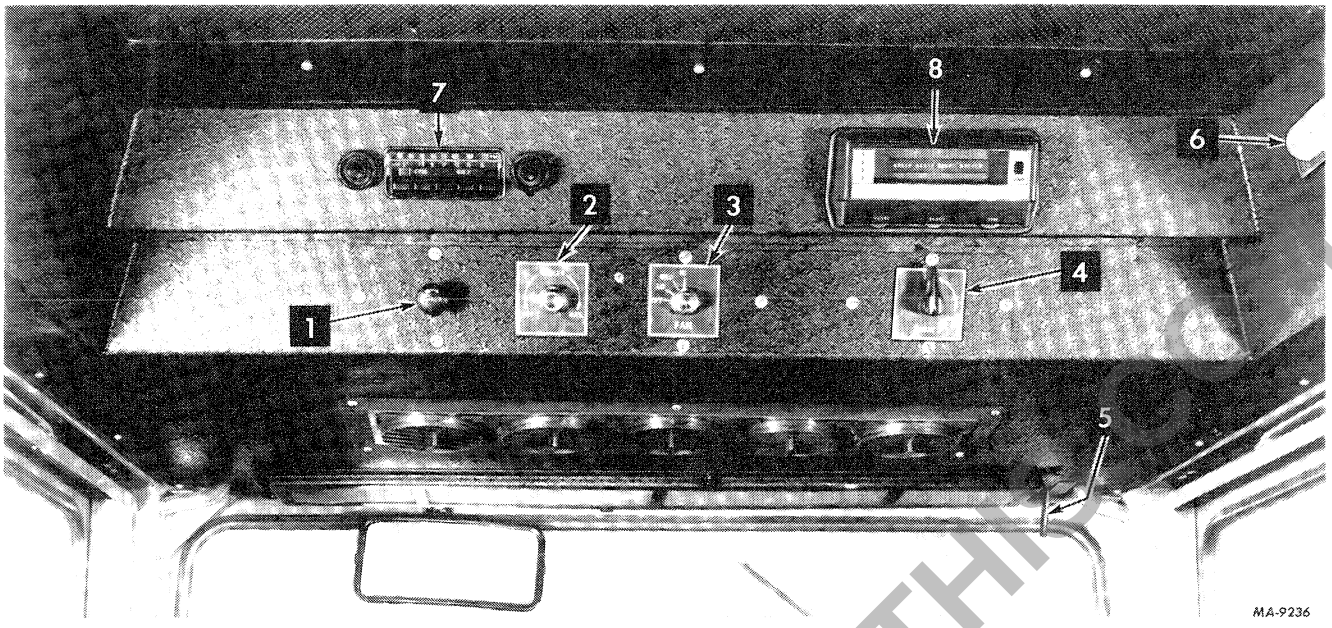
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issued November, 1994

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1 - Windshielf 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

BEFORE OPERATING YOUR NEW TRACTOR

TRACTOR BREAK-IN PROCEDURE

Never operate an engine immediately under full load, break it in carefully as shown in the table. Do not overload the engine at any time.

Period	Engine Speed Control Lever Position	Load
1st Hour	Fully advanced	Maintain engine speed 100 RPM above full load governed speed.
2nd Through 5th Hours	Fully advanced	Full load governed speed with occasional short periods of lighter load.

Allow engine to warm up before operating at full load. If engine coolant temperature rises above middle mark or RUN range on temperature gauge, and coolant level in radiator is correct, shift to lower gear.

The engine is filled with shipping oil. During first 100 hours of operation do not overload or idle engine for prlonged periods. Hydraulic filter elements must be changed as specified in "Lubrication Guide".

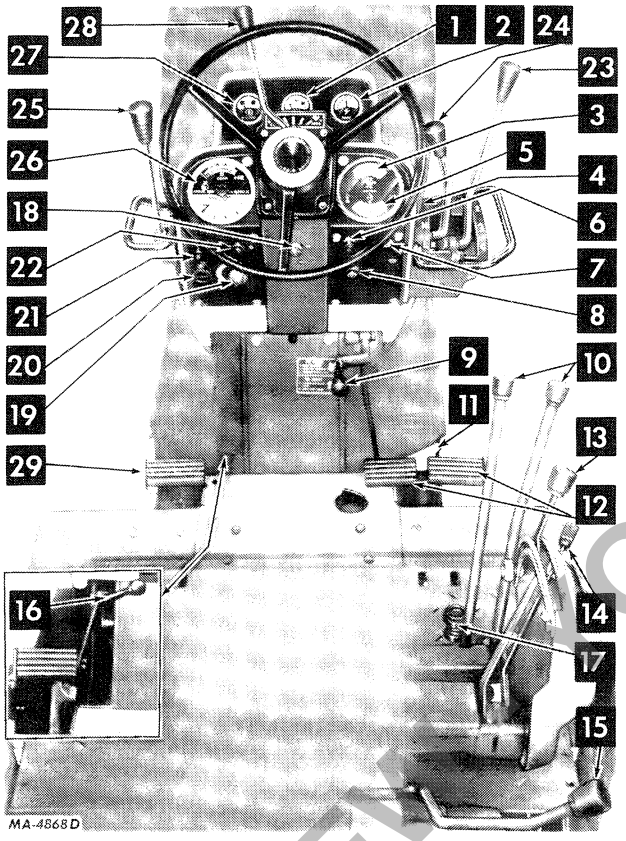
Any attempt to increase the engine horsepower by increasing engine r.p.m. above its rated maximum, or by other means, not only affects traveling speeds but affects the life of matching parts and voids the company responsibility as outlined in the warranty.

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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. (Gear drive with torque amplifer lever, clutch pedal, and transmission range lever and speed lever).

Index to reference numbers for items shown

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

1. Fuel gauge
2. Charge indicator gauge
3. Engine oil pressure gauge
4. Hydrostatic drive: Hi-Lo range selector control
5. Water temperature gauge
6. Gear drive: Transmission oil pressure Tellite
   Hydrostatic drive: Transmission warning Tellite
7. Key switch
8. Horn button
9. Park lock handle
10. Auxiliary valve operating levers
11. Brake pedal latch
12. Brake pedals
13. Position (inside) control lever
14. Draft control lever
15. Independent power take-off operating lever
16. All-Wheel Drive shift lever
17. Hydrostatic Drive: Foot-n-inch pedal

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STARTING PROCEDURE FOR HYDROSTATIC DRIVE TRACTORS AFTER TRANSPORTING ON TRUCK OR FLATCAR

Follow the sequence listed below:

Place the Hi-Lo range selector control and the speed ratio control in the "N" (neutral) positions.

Latch the brake pedals together, press down on the brake pedals.

Depress the Foot-n-Inch pedal and start the engine. Set the engine speed control lever to approximately 1000 r.p.m. as shown on the tachometer.

Hold the speed-ratio control at the left end of the neutral slot (zero speed reverse).

Release the Foot-n-Inch pedal.

Slowly move the Hi-Lo range selector control to "H" (high) range for high speed engagement.

If gear clash is obvious the engine should be shut off immediately and the tractor unloaded by other means. Tow the tractor with the Range selector control in neutral to an area where the transmission can be checked by your International Harvester dealer. Refer to "Towing the Tractor" (Hydrostatic drive).

If there is no obvious gear clash, drive the tractor in the normal manner.

TRANSMISSION OIL HEATER (Optional)

The 500 watt transmission oil heater for hydrostatic drive tractors is used to warm the oil to aid in starting the engine in extreme cold weather conditions. It is located on the drive housing bottom cover and requires a 3-wire extension cord and a 120 volt AC grounded outlet for safe operation.

At sub-zero temperatures, the heater should be operated a minimum of four hours or overnight, if so desired.

ALL-WHEEL DRIVE (Optional)

The lever is used to engage and disengage the All-Wheel Drive. Engaged position provides driving power from both the front and rear wheels.

To operate the tractor in All-Wheel Drive refer to the first three paragraphs under "Starting the Tractor". Then, with the Foot-n-Inch pedal still in the disengaged position, move the All-Wheel Drive shift lever all the way up. Follow instructions in the remaining paragraphs under "Starting the Tractor".

To operate with rear wheel drive only, disengage the Foot-n-Inch pedal and move the All-Wheel Drive shift lever all the way down.



CAUTION! Always disengage the All-Wheel Drive when operating the tractor in "H" (high) range.

If difficulty is experience engaging the All-Wheel Drive shifter lever, shift the Hi-Lo range selector control into the low forward position and slowly engage the engine Foot-n-Inch pedal to move the tractor forward slightly while lifting up on the shift lever until fully engaged. If difficulty is experienced disengaging the All-Wheel Drive shift lever, move the tractor forward or backward a few feet by shifting the Hi-Lo range selector control into the low forward or into the reverse position and slowly engaging the engine Foot-n-Inch pedal, while exerting a downward pressure on the shift lever until fully disengaged.

STOPPING THE TRACTOR

Move the speed ratio control to the neutral position, and apply the brakes.

When dismounting or parking the tractor move the Hi-Lo range selector control to the "N" (neutral) position and engage the park lock.

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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 Temperatures			
		Above +32° F.	+32° F. to +10° F.	+10° F. to - 10° F.	Below -10° F.
Diesel Engine Engine Crankcase	11 qt.**	IH No. 1 SAE-30	IH No. 1 SAE-10W	IH No. 1 10 qts. SAE-10W w/1 qt. kerosene or ***10-3/4 qts. SAE-10W w/1-1/4 qt. kerosene	IH No. 1 9 qts. SAE-10W w/2 qt. kerosene or ***9-1/2 qts. SAE-10W w/2-1/2 qt. kerosene

Point of Lubrication		Lubricant
Alternator-generator	xxx	No lubrication required
Gear drive transmission and differential case (also reservoir for hydraulic system)	Approx. 24 gal.	IH Hy-Tran Fluid
Hydrostatic drive unit and differential case (also reservoir for hydraulic system)	Approx. 27 gal.	Fluid meeting requirements of IH B-6 specification must be used.
Rear Axle housings (each) (Hi-Clear tractors only)	4-1/2 qt.	Refer to "GEAR LUBRICANT" under LUBRICATION
Belt pulley housing	2 qt.‡	
Differential housing (All-Wheel Drive tractors)	10 qt.	Use IH 135H EP gear lubricant or equivalent SAE-90 multi-purpose gear lubricant (sulphur phosphorus type). Lubricant must meet MIL-L-2105B specification.
Lubrication fittings	xxx	Use IH 251H EP grease or equivalent #2 multi-purpose lithium grease for fittings on which the hand lubricator is applied.
Front wheel hubs	Hand pack bearings	Once a year remove, clean, and repack the front wheel bearings.
	Lubrication fittings	Use IH 251H EP grease or equivalent #2 multi-purpose lithium grease.

**** - When changing the filter, add one quart.**
***** - With filter change.**
‡ - Initial fill only.

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— Periodic

Hydrostatic Drive Tractors only: Before checking the level of the transmission lubricant, put the range selector and speed ratio controls in "N" neutral position.

Run the engine to operating temperature. With the engine running for three minutes at 1600 r.p.m. check the level on the gauge in the top of the transmission case. Keep the lubricant up to the full mark.

Gear Drive and Hydrostatic Drive

Transmission and Hydraulic System

39. Oil filler and bayonet-type gauge.
40. Drain plug (Rear frame, center plug).
41. Drain plug (Clutch housing) (Gear drive).
42. Drain plug (Drive housing) (Hydrostatic drive).
43. Drain plug I.P.T.O. (rear unit)
44. Drain plug (Rear axle carrier).

Check the level of the lubricant periodically. Use approved lubricant according to the "Lubrication Table."

Keep the lubricant up to the "Full" mark on the transmission oil level gauge at the top left side of the transmission case.

NOTE: Change the lubricant in the transmission case at least once a year preferably before freezing weather sets in. However, do not drive the tractor more than 1,000 hours without changing the lubricant. Be sure to change the hydraulic fluid filter at this time.

Remove the center drain plug and drain plugs and allow all the lubricant to drain out. For tractors with Independent Power Take-Off also remove the drain plug. Remove the transmission oil level gauge. Refill with IH Hy-Tran fluid up to the "Full" mark on the gauge. Start the tractor engine and operate it at a moderate idle speed. Move the steering wheel first to one extreme, then to the other, and then back to center.

If so equipped, set the "Position Control (inner) Lever" and "Auxiliary Valve Levers" all the way forward.

NOTE: Disconnect equipment from hydraulic couplers before actuating the auxiliary valve levers.

Stop the engine and refill with IH Hy-Tran fluid up to the "Full" mark on the transmission oil level gauge and reinstall the gauge.

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Turn signals

The turn signal lever (located to the left of the steering wheel) is used by moving it down for left turn and up for right turn as shown by flashing lights on side towards turn, with steady light shown on opposite side.

NOTE: In order to actuate turn signals tractor taillight must be on.

Turn signal switch for standard dual flashing warning lights operation should be in the center position.

Windshield Wiper Switch

The windshield wiper is controlled by an "On" and "Off" switch.

Rear View Mirror

This mirror enables the operator to view conditions at the rear of the tractor.

Dome light

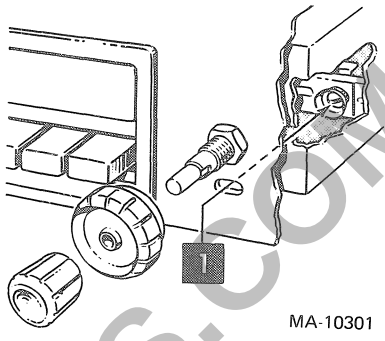
The dome light is on a live circuit and can be operated independent of tractor key switch. It is turned on and off by a toggle switch adjacent to the light.

Radio

The radio tuning knob is at the right side of the radio dial. A combination on-off and volume control knob is at the left of the dial. A ring-type tone control is located behind the volume control knob. A ring type control is located behind the tuning knob to balance the left and right speakers. A headphone jack is available from your dealer.

To adjust the push buttons, pull the selector button straight out until it stops. Tune in the desired station. Then push the selector button straight in until it stops. Then release it.

For best FM reception, tune in a weak station at lower end of the band. Pull off both right knobs and then insert a screwdriver through the access hole and adjust trimmer screw for maximum volume. Reattach knobs.



1 - Antenna trimmer screw

Tape Player

To operator the tape player, insert an eight track tape cartridge, label side up and open end first, into the tape slot. Push the cartridge into the tape slot until it is firmly seated. This automatically turns the tape player on. If the radio was turned on, a relay will disconnect the radio to prevent radio operation while the tape is playing.

To stop the player, remove the tape cartridge.

Protect the open end of the tape cartridge from damage and dirt. It is recommended that a tape storage box be used to prevent dust accumulation on the tape.

The tape player will play all four channels automatically and in order. An indicator light at the left of the tape slot indicates which channel is playing. If a different channel is desired, push the channel selector button at the right of the tape slot. The unit will step to the next channel each time the button is pushed.

The tape player volume, balance and tone controls are at the bottom front edge of the tape player.

Moving the stereo balance control to the left decreases the volume of the left hand speaker and increases the volume of the right hand speaker, while moving the control to the right does just the opposite. Adjust the stereo balance control until you hear equal volume from both speakers.

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A breakaway connector socket (optional) is located on the left underside of the platform or on the left fender support on tractors with deluxe fenders; or the left fender on tractors with wide coverage fenders. The connector serves as a plug-in connection for lights on trailing-type equipment. This socket can also be used to plug in a trouble light.

Warning Lights

Two amber flashing warning lights are located at the rear of the tractor. The lights will automatically flash whenever the red taillight is "On".

These lights are for use on public highways to warn operators of other vehicles that they are approaching a slow moving vehicle.

If local laws do not approve their use disconnect the short body connector from one terminal of the flasher and connect to the male blade of the other connector body on the flasher. This will provide a steady light.

Lighting Switch Positions

TRACTORS WITH FRONT MOUNTED HEADLIGHTS

"OFF" - All lights turned off.

"D" - Headlights on dim; bright instrument lights; a red taillight; and amber warning lights.

"B" - Headlights on bright; bright instrument lights; a red taillight; and amber warning lights.

"R" - Headlights on bright; bright instrument lights and a white rear light.

TRACTORS WITH FRONT MOUNTED HEADLIGHTS AND FENDER MOUNTED FLOODLIGHTS

"OFF" - All lights turned off.

"D" - Headlights on dim; floodlights off; bright instrument lights; a red taillight; and ambering warning lights.

"B" - Headlights on bright; floodlights off; bright instrument lights; a red taillight; and amber warning lights.

"R" - Headlights and floodlights on bright; bright instrument lights and a white rear light.

CAUTION! The red taillight should always be used when traveling on the highway at night or during times of poor visibility. The white rear light is for field use only and must not be used on the highway.

TRANSMISSION OIL PRESSURE TELLITE (Gear drive Tractors)

The transmission oil pressure Tellite is located on the right side of the instrument panel. The Tellite is connected in the circuit with the key switch. A flashing type bulb is used.

Turn the key switch on. The Tellite should come on. The bulb will burn steadily or flash off and on intermittently. Each time the engine is to be started, check whether the light is functioning properly.

Check bulb. Replace the bulb if burned out. Refer to "Specifications".

After the engine is started, the light should go out in a few seconds. On tractors with the torque amplifier, the engine clutch must be in the engaged position before the light will go out. If light stays on or comes on during engine operation, stop the engine and check the oil level in the transmission. Add oil if necessary to bring to the proper lever. Refer to "Lubrication". Start the engine. If the light still comes on see your International Harvester dealer.

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To The Owner

Assembled in this manual are operation, lubrication, and maintenance instructions for the Farmall 966 Diesel Tractor. The Farmall 966 Tractor including the Hi-Clear and All-Wheel Drive Models, have either a conventional clutch and transmission or hydrostatic drive. This material has been prepared in detail in the hope that it will help you to better understand the correct care and efficient operation of your tractor.

Your new International Harvester tractor is designed to meet today's exacting operating requirements. The ease and comfort of operation, the ability to match ground speeds to engine power and work requirement, and the effortless versatility of the hydraulic system are intended to lighten your work and shorten your hours on the job.

Your local International Harvester dealer is interested in the performance you receive from this tractor. He has factory-trained servicemen, informed in the latest method of servicing tractors, and modern tools, and original-equipment IH service parts which assure proper fit and good performance.

To obtain top performance and assure economical operation the tractor should be inspected, depending on its use, periodically, or at least once a year, by your International Harvester Dealer.

Before you operate the tractor study this manual carefully. It has been prepared to help you operate and maintain your tractor with utmost efficiency. New copies may be ordered from your dealer at a nominal price.

When in need of parts, always specify the tractor model and serial numbers, including prefix and suffix letter. Write these serial numbers in the spaces provided under "Serial Numbers".



Universal symbols are used to pictorially identify various tractor instruments and controls. Throughout this manual an identifying symbol is placed by the instructions like this example for engine coolant temperature. The waves signify water or coolant and the thermometer indicates temperature. Regardless of the language used in a nation, and without translation, this symbol means water or coolant temperature.

A Careful Operator

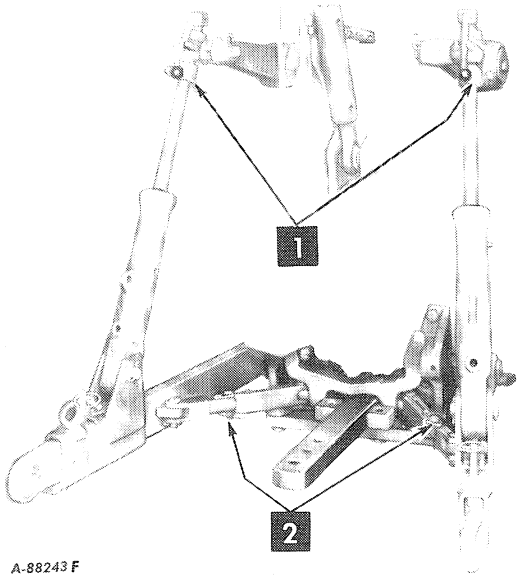
IS THE BEST INSURANCE AGAINST AN ACCIDENT

THIS MANUAL IS FOR TRACTORS WITH TRACTOR SERIAL NO. 17000 AND ABOVE.

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"RIGID" HITCH POSITION



1 - Set collars
2 - Lateral limiter lockout pins

Three-point hitch in "rigid" setting.

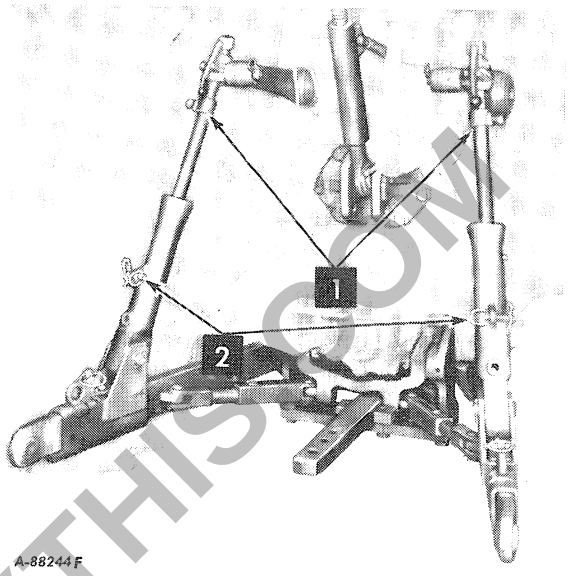
Put the set collars on the left and right leveling crank screws in the upper position. Be sure the point of each set screw is in the spot hole.

Remove the lateral swing lockout pins from the lift links and insert them in the holes in the lateral limiter housings.

"FREE TO FLOAT" POSITION

Put the set collars on the left and right leveling crank screws in the lower position. Be sure the point of each set screw is in the spot hole.

Remove the lateral swing lockout pins from the holes in the lateral limiter housings and store them in the lift links.

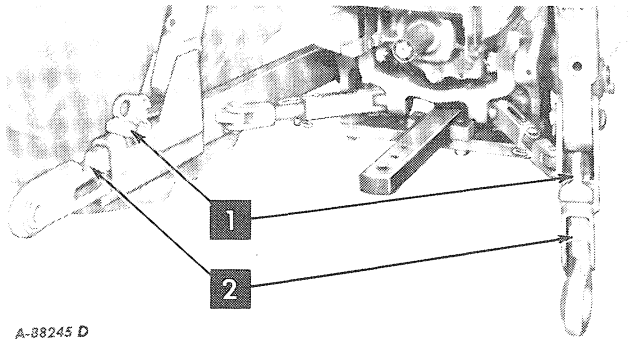


1 - Set collars
2 - Lateral limiter lockout pins

Three-point hitch in "free to float" setting.

HITCH LOWER LINKS

The rear section of the lower links can be extended to provide easier hitching by lifting the latches. When necessary, one of the lower links can be raised individually without cranking by loosening the set screw on the lift link set collar.



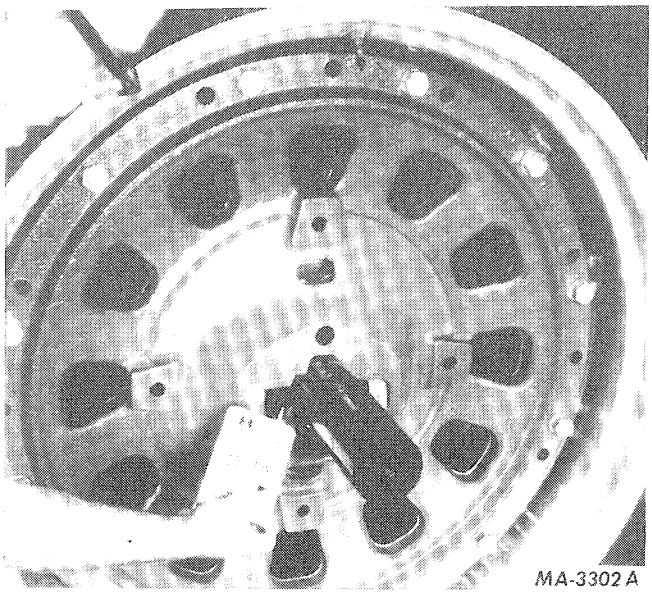
1 - Latches
2 - Lower link rear sections pulled out

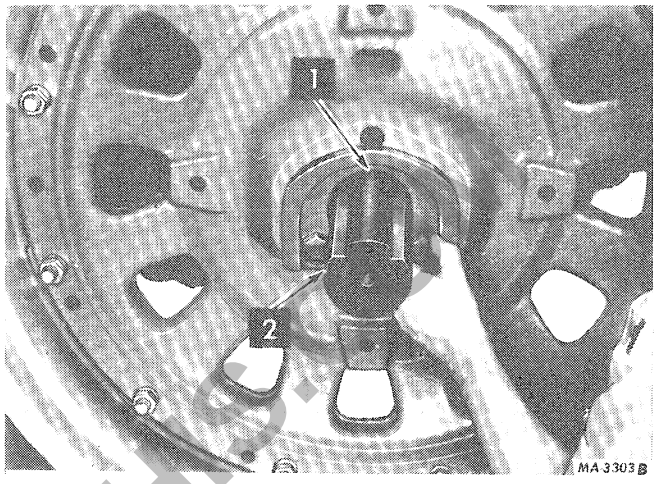
Lower link rear sections pulled out for easier coupling.

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Loosening The Wheels


MA-3302 A



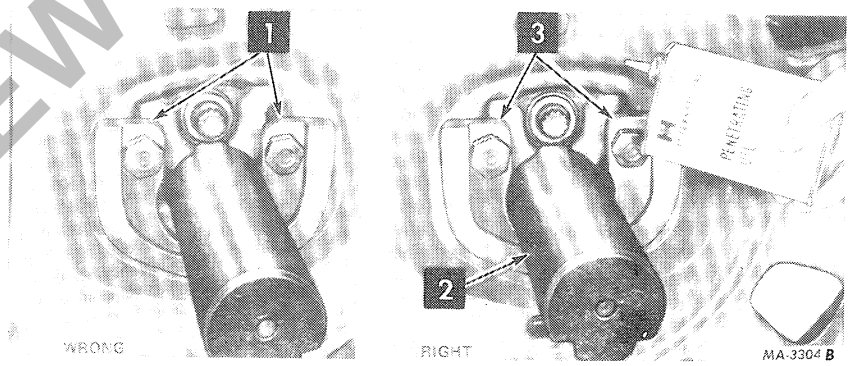
MA 3303 B

1 - Plate contacting axle
2 - Wedges down

Position the wheel with the wedges on the bottom and lubricate in and around the wedges at all points of contact including wheel hub, axle, and bolt. Install the wedge removing plates using the sleeves over the bolts. Make certain that the plates are mounted (offset in or out) so that there is clearance between the plates and the wedges which will allow the wedges to move.

Tighten the bolts to a torque of 75 foot-pounds, making certain that the closed end of the plate is against the axle.

Roll the tractor ahead so that the wedges are on top of the axle and check to make certain that the plates are square.



MA-3304 B

1 - Tool not square with wedges
2 - Tool contacting axle
3 - Tool square with wedges

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