



International Harvester

Operator's Manual

340, 460

560, 660

Preventative Maintenance

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IH-O-340 ETC PM

Operator's Manual

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PREVENTIVE MAINTENANCE



FOR
Mc CORMICK DEERING
FARMALL - INTERNATIONAL

340-460-560-660

or Call 800-443-0625

TRACTORS

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A Careful Operator

IS THE BEST INSURANCE
AGAINST AN ACCIDENT

—National Safety Council.

INTRODUCTION

Preventive Maintenance for the Farmall 340 Diesel, Farmall 460 Diesel Series, Farmall 560 Diesel Series, International 340 Diesel Utility and Industrial Series, International 460 Diesel Utility and Industrial Series, International 560 Diesel, and International 660 Diesel Tractors is presented in this manual.

OIL FILTER (Full Flow System)

CLICK ANYWHERE FOR MORE DETAILS

8. Install the new filter element as follows:

Make sure that the case gasket and the bolt gasket are in good condition. Replace them with new ones, if necessary.

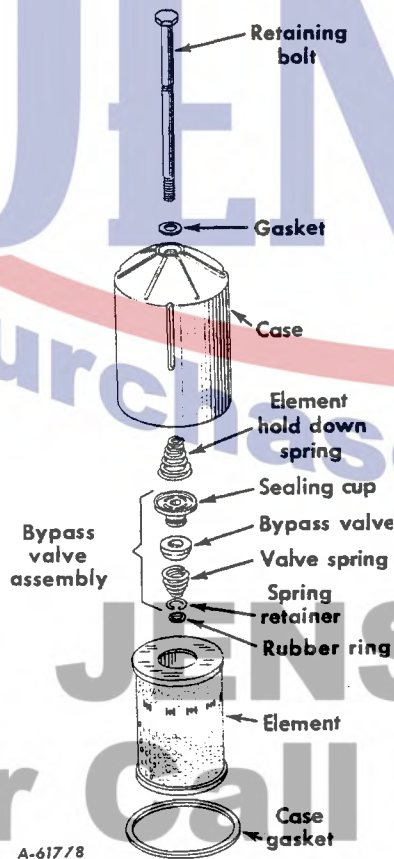
To replace the bolt gasket, reach up inside the filter case and remove the rubber ring, bypass valve assembly, and element hold down spring from the filter case bolt. Then remove the bolt from the case and replace the gasket with a new one. Reassemble the bolt, filter

case, hold down spring, bypass valve assembly, and rubber ring in the reverse order of removal. See Illust. 5. Make sure the rubber ring is seated in the groove in the filter case bolt to prevent the valve assembly and spring falling out when changing elements.

Install the new filter element, then install the case, retaining bolt, and bypass valve assembly. Carefully lower the retaining bolt into the filter base and tighten it securely.

9. Reinstall the crankcase oil pan drain plug and refill the crankcase oil pan with new oil, as instructed in the tractor Operator's Manual.

10. Start the engine; check the oil pressure gauge to see whether lubricating oil is circulating through the engine; then inspect the filter for oil leaks.



Illust. 5
Filter disassembled.

CHANGING THE FILTER ELEMENT Six Cylinder Diesel Engines

1. Do not change the element while the engine is running. Stop the engine.
2. Remove the oil filter base drain plug and allow the oil filter to drain completely.
3. Clean the filter case to prevent dirt from dropping into the base.
4. Unscrew the center tube.
5. Lift up and remove the center tube and case.
6. Remove the old element.

Note: If any equipment on the tractor prevents lifting the case over the element, remove the case and the element together.

7. Wipe out the base and the case with a cloth dampened with kerosene.

Continued on next page.

OIL FILTER (Full Flow System)

CHANGING THE FILTER ELEMENT - Continued Six Cylinder Diesel Engines

8. Install the new filter element as follows:

- (a) Replace the drain plug in the filter base and install the new filter element.
- (b) Inspect the center tube and make sure it is clean. Do not allow dirt to go into the tapered center of the base as this passage leads to the bearings.
- (c) Make sure that the case, center tube, and drain plug gaskets are in good condition. Replace with new ones if necessary.

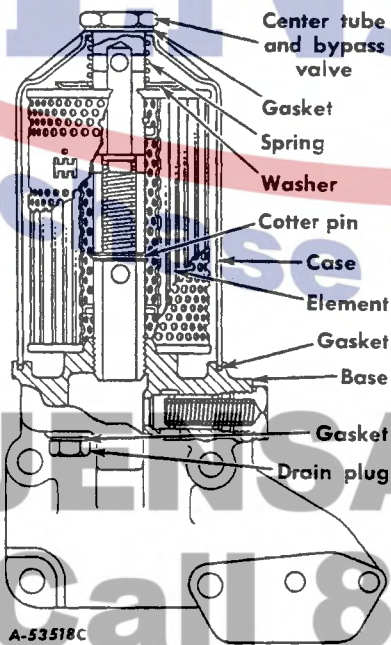
To replace the center tube gasket, reach up inside the filter case and remove the cotter pin, washer, and element hold down spring from the center tube. Then remove the center

tube from the case and replace the gasket with a new one. Reassemble the center tube, filter case, hold down spring, washer, and cotter pin in the reverse order of removal. See Illustr. 6. Be sure the cotter pin is bent around the center tube to prevent the washer and element hold down spring falling out when changing elements.

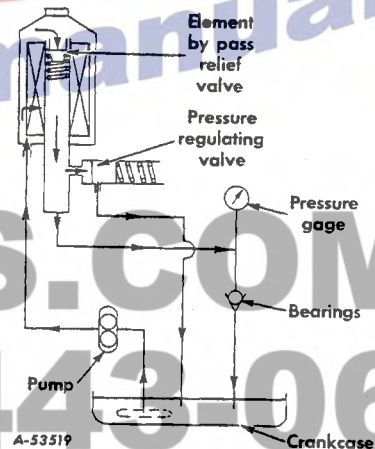
Install the new filter element, then replace the case and center tube assembly. Carefully screw the center tube into the filter base and tighten securely.

9. Drain and refill the crankcase oil pan with new oil as instructed in the tractor Operator's Manual.

10. Start the engine and check the oil pressure gauge to see whether lubricating oil is circulating through the engine; then inspect the filter for oil leaks.



Illustr. 6
Cutaway view of the oil filter.

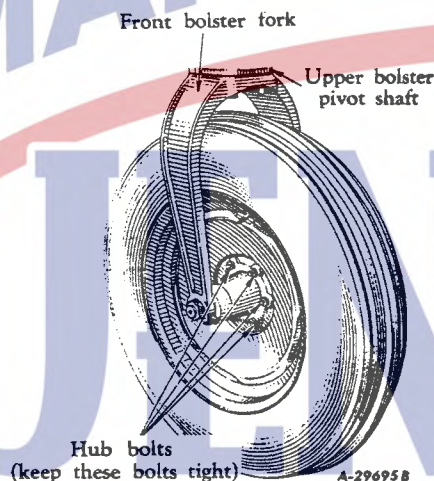


Illustr. 6A
Diagram showing flow of oil from crankcase to oil filter.

GREASING THE FRONT WHEELS

The Farmall and International 340 Diesel, 460 Diesel, and 560 Diesel Tractors are equipped with disc-type front wheels and pneumatic tires, International 660 Diesel Tractors are equipped with cast spoke front wheels with pneumatic tires. The wheels revolve on two tapered roller bearings and are protected by felt and leather seals. A dirt deflector is also provided on the axle to prevent dirt from entering at the inner bearing.

SINGLE FRONT WHEEL (Farmall 340 Diesel, 460 Diesel, and 560 Diesel Tractors)



Illust. 7
Single front wheel.

If the tractor has a single front wheel, check the hub bolts every month or after every 250 hours of operation to make sure that they are kept tightened at 100 minimum to 125 maximum foot-pounds torque.

SINGLE FRONT WHEEL

7.50-16 Pneumatic Tire Wheel

The 7.50-16 pneumatic tire wheel should be removed, cleaned and repacked with fibre grease every six months or after every 500 hours of operation. Follow the Removing and Greasing procedure for this operation.

9.00-10 Pneumatic Tire Wheel

The 9.00-10 pneumatic tire wheel should be lubricated daily or after every ten hours of operation.

Use pressure-gun grease (chassis lubricant) and apply two or three strokes of the lubricator, or a sufficient amount of grease to flush out the old grease and dirt. The lubrication fitting is located on the end of the front axle nut.

REMOVING AND GREASING

Be sure to keep all parts clean.

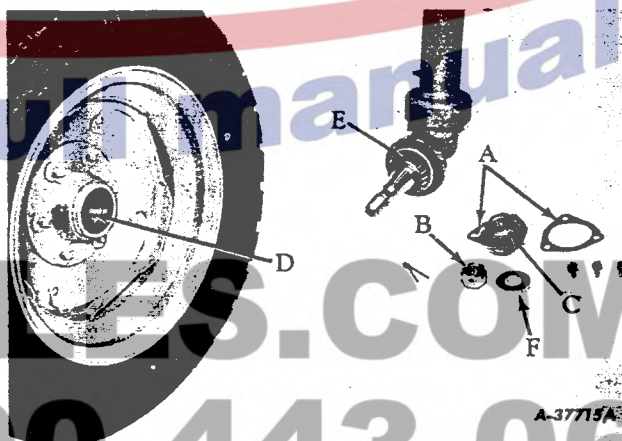
Every six months or after every 500 hours of operation, whichever occurs first, remove, clean and repack the front wheel bearings.

Raise the front end of the tractor until the wheels clear the ground. Remove hub cap and gasket "A", the cotter pin, nut "B" and washer "F". Remove bearing "C" and place it in hub cap "A" or in a clean container; then remove the wheel.

Clean the inside of hub "D", remove the old grease from the bearings, clean them with kerosene, and repack with fiber grease.

It is advisable to leave bearing "E" on the axle and clean it with a brush and kerosene. Repack the rollers with new grease before reassembling the bearings.

Inspect the oil seal felt washer and gasket and if they are not in satisfactory condition, replace them with new ones. A dirt deflector is also provided on the axle to prevent dirt from entering at the inner bearing.



Illust. 7A

Wheel removed for cleaning and greasing.

REPLACING AND ADJUSTING

Reassemble the wheel and tighten nut "B" until the wheel binds slightly, rotating the wheel at the same time. Back the nut off one castellation from the cotter pin hole; replace the cotter pin and hub cap.