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4386, 4586, 4786 Tractors

Operators Manual

1096026R4

Reprinted

CASE IH

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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 handling ANY equipment, READ the OPERATORS MANUAL.

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SERVICING AND BEFORE STARTING

Carefully supervise inexperienced operators.

When fueling a tractor, keep any type of open flame away. Do not smoke. Stop the engine.

Check coolant and engine oil levels, and perform any other necessary services, before starting the engine.

CAUTION! Never enter hinge or pivot area of tractor without using lock pin. Refer to "Operating the Tractor" for instructions.

When it becomes necessary to remove the radiator cap, proceed as follows: Turn the radiator cap slowly counter clockwise to the pressure release point to allow the pressure or any steam to escape; then press down on the cap and continue to turn until the cap is free to be removed.

Check the brake and clutch pedals for correct adjustment.

Reduce tipping hazards by spreading wheels as far as your work program permits.

Be sure muffler or exhaust pipe are in place so exhaust gases are discharged above the cab.

Always keep the operators compartment clean. Keep dirt, trash, and grease from the pedals, steps, mounting handles, steering wheel, and controls.

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.

STARTING

Know the controls and what they do. Be in the operator's seat and fasten the seat belt. Place all controls in neutral and set the park brake before starting the engine.

Make sure that the helpers or observers stand clear of the equipment.

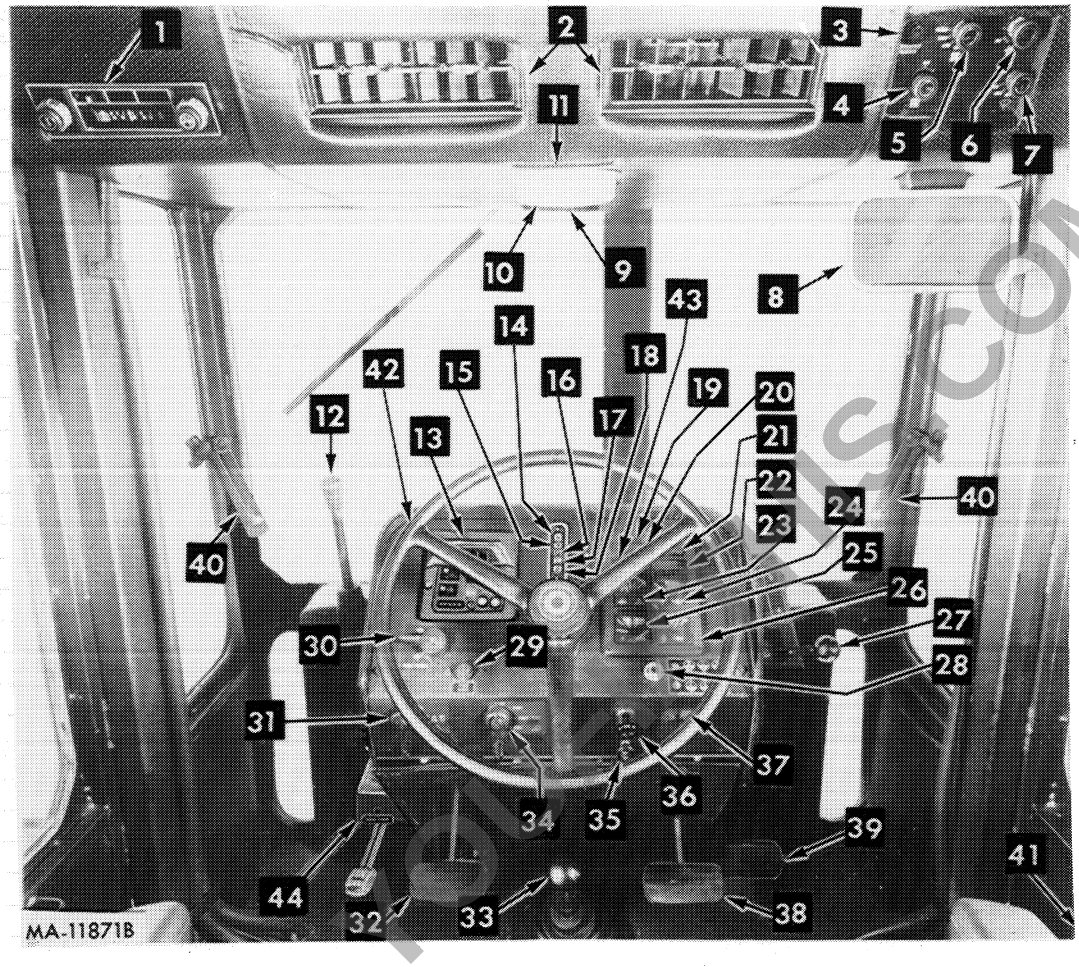
Make sure the area is well ventilated.

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INSTRUMENTS AND CONTROLS

INSTRUMENT PANEL, CAB INTERIOR AND CONTROLS



1 - Radio
2 - Air flow louver
3 - Refrigerant pressure indicator light
4 - Heater control
5 - Blower control
6 - Air conditioner control
7 - Windshield wiper control
8 - Rear view mirror
9 - Air recirculation louver
10 - Dome light
11 - Defroster louver
12 - Range lever
13 - Data center
14 - Park brake light
15 - Brake wear light
16 - Air cleaner light
17 - Exhaust gas temp. alarm light
18 - Working lights indicator
19 - Turn signal indicators
20 - Coolant temperature tellite
21 - Engine Oil pressure tellite
22 - Differential oil level tellite
23 - Engine oil pressure gauge
24 - Coolant temperature gauge
25 - Voltmeter
26 - Fuel gauge
27 - Engine speed control lever
28 - Key start switch
29 - Ether start push button
30 - Combination flash and turn signal switch
31 - Headlight switch
32 - Clutch pedal
33 - Transmission speed lever
34 - Auxiliary work light switch
35 - Fuel shut off
36 - Cigarette lighter
37 - Horn button
38 - Brake pedal
39 - Decelerator pedal
40 - Quarter window sector arm
41 - Auxiliary valve levers
42 - Steering wheel
43 - Low coolant level tellite
44 - Park brake controls

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OPERATING THE TRACTOR

NEUTRAL STARTING SWITCH

The tractor engine can be started when the clutch pedal is pushed down.

STARTING THE ENGINE

 This symbol shows low idle position.

 This symbol shows high idle position.

NOTE: If high idle position is used for starting, as soon as the engine starts, reset the engine speed control lever to obtain about 1200 r.p.m.

When Temperatures Are Above Freezing

Proceed as follows:

Be sure that the fuel shut-off valve, located on the bottom left side of the fuel tank is open.

Put the transmission speed lever into the "N" (neutral) position.

4386 Tractor

Put the engine speed control lever at the middle position. Push down on the clutch pedal. Turn the key switch to the crank position to start the engine.

4586 and 4786 Tractors

Push the fuel shut-off control in. Pull the engine speed control lever down to the prime position and then push it up to the start position on the quadrant. Depress the clutch pedal. Turn the key switch to the start position and crank the engine. If the engine fails to start or has a false start, repeat the procedure.

NOTE: 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 crank again.

When the engine starts, check the oil pressure gauge and tellite. If there is no oil pressure shown on the gauge, the oil tellite is on, or the audible signal alarm is on, stop the engine immediately and find out what is wrong.

After the engine starts, slowly release the clutch pedal.

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

When Temperatures Are Below Freezing

At temperatures below freezing, it may be necessary to use ether as a starting aid. Loosen the large knurled screw base on the ether solenoid. Remove the bail from its storage position and assemble it in its lower operating position. Install an approved aerosol can of ether in place and tighten the knurled screw base to hold the aerosol can in place.

Follow the instructions under "When Temperatures Are Above Freezing" to step where the key is turned to start position.

Turn the key switch to the start position and with the engine cranking, apply ether intermittently by pressing the ether start push button for 1 to 2 seconds and releasing. If the engine does not begin firing within 3 shots of ether, stop cranking and make sure that ether is available under pressure. To do so, remove the ether can and check if a good spray is obtained.

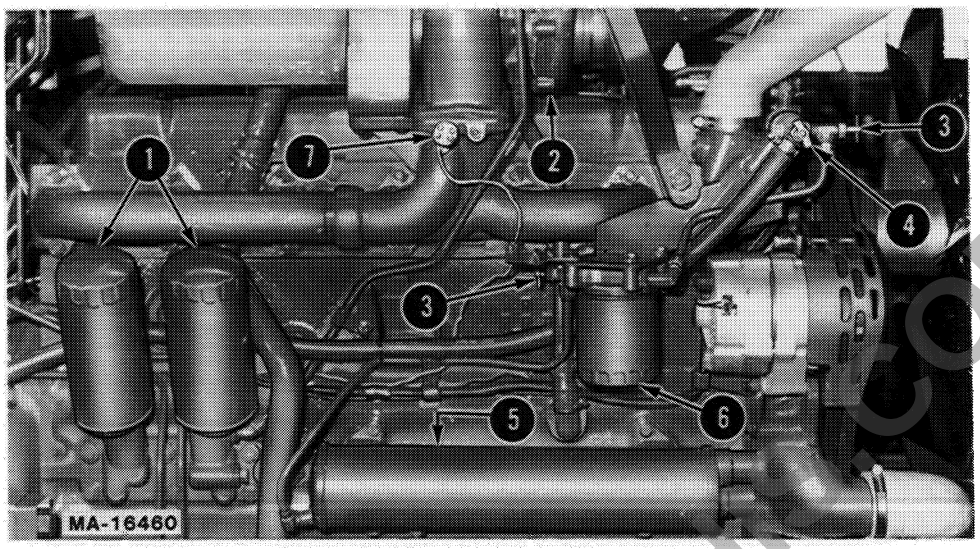
If a good, visable spray can not be obtained, replace with a new aerosol can. If a good, visable spray was obtained, reinstall aerosol can and with nozzle removed and line connected check for spray.

If the engine is not firing on all cylinders, apply ether intermittently until engine is running smoothly.

NOTE: To avoid engine damage, use ether only when engine is turning. Do not use ether to increase power.

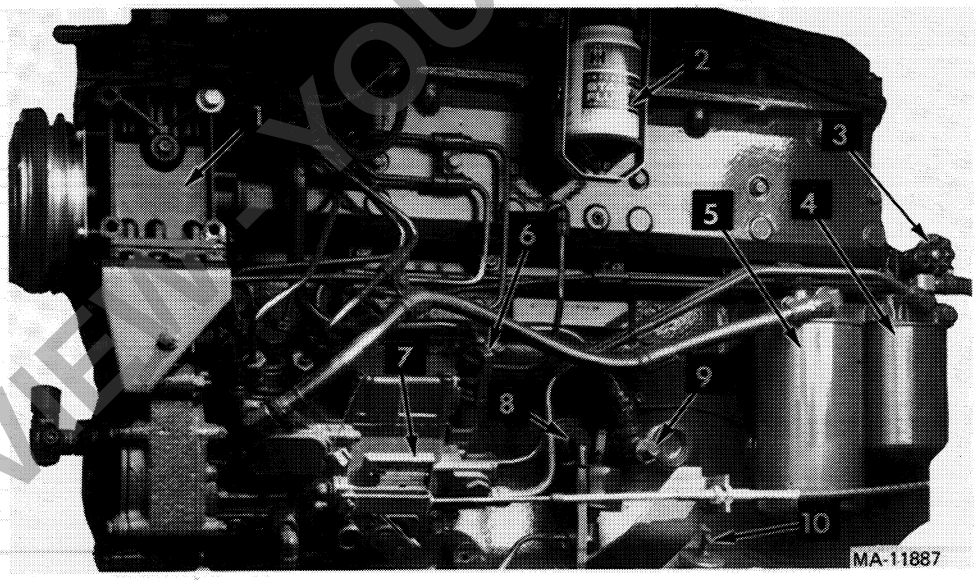
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1 - Oil filters
2 - Turbocharger
3 - Coolant system filter shut-off
4 - Heater shut-off
5 - Oil cooler
6 - Coolant filter
7 - Exhaust gas temperature thermocouple

Right side of DTI-466 engine.



1 - Compressor
2 - Ether fluid container
3 - Heater shut-off
4 - Primary fuel filter
5 - Final fuel filter
6 - Hand priming pump
7 - Fuel injection pump
8 - Engine coolant heater
9 - Crankcase water drain plug
10 - Oil filler and level gauge

Left side of DTI-466 engine.

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—Daily or After Every 10 Tachometer Hours of Operation

1. Oil filler and bayonet-type oil level gauge. Left side

Always check for safe crankcase oil level (above the "Add" mark) before starting the engine. The oil level varies with temperature (due to expansion) and drain down time; therefore, the level can be checked accurately only with the vehicle on level ground with the engine hot and after it has stopped for 10 to 20 minutes. To check the oil level, the oil gauge should be loose, wiped clean, slowly inserted, and slowly removed. The oil level must be maintained between the "Add" and the "Full" marks.

2. Hinge.
3. Link (2).
4. Not used.
5. Swinging drawbar roller.
6. Rockshaft bearing (2).
7. Lift cylinder upper pin (2).
8. Center link assembly (2).
9. Lift link assembly (8).
10. Lower link pin (2).
11. Lift cylinder lower pin (2).
12. Center link pin.
13. Drawbar pivot bearing.

Use IH 251H EP grease or equivalent #2 multi-purpose lithium grease and apply two or three strokes of lubricator, or sufficient grease to flush out the old grease and dirt.

14. Hydraulic fluid filter.

NOTE: After the first 10 hours only: Remove and clean the by-pass valve screen and replace the filter. Change the filter at 100 hours, 200 hours, and every 200 hours of operation thereafter. Refer to "Hydraulic Fluid Filter".

15. Front drive unit.

Check the level of the lubricant daily in the front drive unit and add sufficient approved lubricant to bring it up to half full on the oil level gauge sight glass. Refer to "Gear Lubricant" and "Lubrication Table".

NOTE: The speed transmission and transfer case receive necessary lubricant from the front drive unit, which is also the reservoir. Therefore, it is only necessary to maintain the proper level of lubricant in the front drive unit at the oil level gauge, to assure proper lubrication in the speed transmission and transfer case.

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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	Lowest Anticipated Air Temperature for Oil Change Intervals		
		Above +32° F. (0° C.)	Above −10° F. (−23.3° C.) To +32° F. (0° C.)	Below 0° F. (−17.7° C.)
DTI-466 Diesel Engine Crankcase	SEE NOTE BELOW:	I.H. No. 1 ‡SAE-30	I.H. No. 1 ‡SAE-10	I.H. No. 1 SAE-5W-20 or SAE-5W-30 Do not exceed 100 hour oil and filter change. For prolonged full load operation SAE-10W must be used.
V-800 Diesel Engine Crankcase	*24 qts. (22.7L) **30 qts. (28.4L)			

LUBRICANTS

	4386 and 4586	4786	
Front Drive Unit	21 gals. (79L)	25.5 gals. (96.6L)	I.H. Hy-Tran® Fluid If fluid is used which does not meet requirements of I.H. 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 or filters are not covered by warrenty. **"FOR MAXIMUM PROTECTION USE IH HY-TRAN® FLUID AND FILTERS".**
Rear Drive Unit	31 gals. (117L)	35.5 gals. (134.5L)	
Transmission	12.5 qts. (11.8L)		
Transfer Case	1 gal. (3.79L)		
Lubrication Fittings	Use IH 251H EP grease or equivalent #2 multi-purpose lithium grease for fittings on which the hand lubricator is applied.		

NOTE: Engines with serial number 77299 and below *17 qts. (16.1L) **20 qts. (18.9L)
Engines with serial number 77300 and above *19 qts. (17.9L) **22 qts. (20.8L)

NOTE: If ambient air temperature is below +10° F. (−12° C.) use engine coolant heater.

*Without filter change **With filter change ‡Do not substitute SAE-10W-30 or 10W-40

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