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MANUAL PREVIEW

International Harvester Operator's Manual 4186

Operator's Manual

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INTRODUCTION

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1 - Right
2 - Rear

3 - Left
4 - Front

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Terms of location.

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

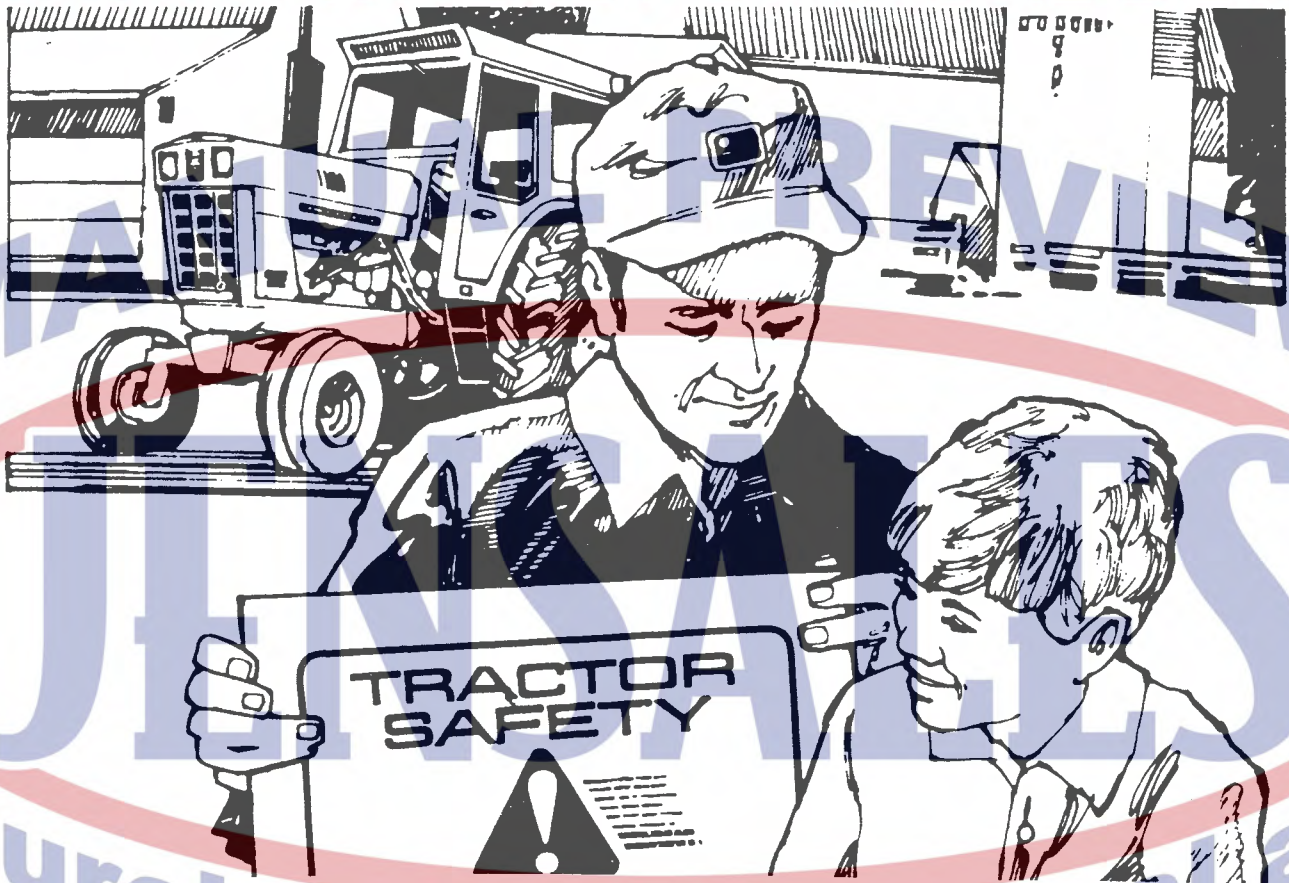
A variety of optional equipment is available. Refer to "Optional Equipment". Operating and maintenance instruction on these items is included in the instructions for operating or Maintaining the tractor.

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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 STARTING

Know the controls and what they do.

When fueling an engine, keep any type open flame away. Do Not Smoke! Wait for the engine to cool before refueling it.

Check brakes and clutch for correct adjustments.

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

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

Clean dirt, trash, and grease from operator's platform, pedals, steps and steering wheel.

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.

Put all controls in neutral before starting the engine.

Be sure power take-off lever is in the "OFF" or disengaged position before starting engine.

Before starting engine make sure helpers or observers stand clear of equipment.

Operate the engine only in well ventilated areas.

Release park brake completely prior to moving tractor.

Be sure muffler and exhaust pipe extensions are in place so exhaust gases are discharged above operator.

Check overhead clearance carefully before driving under power lines, guy wires, bridges, low hanging tree branches, entering or leaving buildings, etc.

TRACTOR 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.

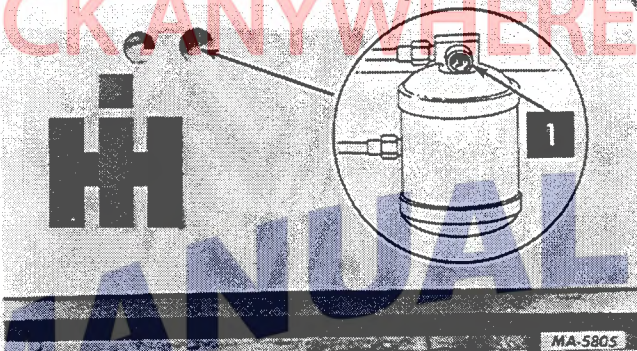


Location of tractor instruments and controls.

- | | |
|---|--|
| 1 - Engine oil pressure tellite | 10 - Service brake pedal |
| 2 - Fuel gauge | 11 - Two wheel-four wheel steering control lever |
| 3 - Alternator-generator tellite | 12 - Range lever |
| 4 - Temperature gauge | 13 - Speed lever |
| 5 - Transmission oil pressure tellite | 14 - Two wheel-four wheel drive lever |
| 6 - Air cleaner service indicator | 15 - Independent power take-off clutch operating lever |
| 7 - Fuse housing | 16 - Transmission oil lever gauge |
| 8 - Lighting switch (basic tractor lights) | 17 - Right rear coupler operating lever |
| 9 - Ether injection solenoid control switch | 18 - Left rear coupler operating lever |
| | 19 - Hydraulic drawbar control lever |
| | 20 - Clutch pedal |
| | 21 - Park brake pedal |
| | 22 - Park brake release lever |
| | 23 - Lighting switch (fender lights) |
| | 24 - Horn button |
| | 25 - Push button starting switch |
| | 26 - Key switch |
| | 27 - Cigarette lighter |
| | 28 - Speedometer-tachometer |
| | 29 - Engine speed control lever |
| | 30 - Turn signal switch |

CAB EQUIPMENT PREVENTIVE MAINTENANCE

REFRIGERANT SIGHT GLASS



1 - Sight glass

The sight glass is used to determine if sufficient refrigerant charge is in the air conditioning unit.

To check the sight glass remove both plugs at the rear of the condenser box.

View sight glass through one hole while illuminating the sight glass through the other hole.

Be sure sight glass is clean.

If the sight glass is cloudy, with many bubbles, in continuous running cycle, the unit is low on refrigerant charge and must be serviced to full charge condition for efficient cooling. See your "International Harvester" dealer.

ADJUSTING THE COMPRESSOR BELT TENSION

The compressor drive belt is adjusted for tension by moving the compressor on its mounting bracket.

Loosen the three mounting bracket bolts and the adjusting bolt lock nut. Tighten the belt by turning the adjusting bolt "in"; loosen the belt by turning the adjusting bolts "out". The tension is correct when the belt can be deflected with a 25 pound (11.35 Kg) load 15/32-inch (11.89 mm) midway between the fan and compressor pulleys.

When using a belt tension dial gauge, the recommended range is 100 to 120 pounds (45.40 to 54.48 Kg) (direct reading on the dial).

After adjustment is made tighten the adjustment bolt lock nut and the three mounting bracket bolts.



- 1 - Compressor mounting bracket bolts
- 2 - Adjusting bolt and lock nut
- 3 - Compressor oil filler plug
- 4 - Coolant shut-off (left rear shown - right front located on engine thermostat housing)

Adjusting the compressor belt.

COMPRESSOR PULLEY AND CLUTCH

The compressor clutch should be periodically cleaned thoroughly.

Energize the clutch. Remove bolt "A".

Thread a 5/8-inch — 11 NC bolt in clutch at "A", and slowly tighten to remove pulley and clutch from the shaft. Remove bolt from clutch.

De-energize the clutch.

Thoroughly clean inside recessed area of pulley and clutch with compressed air.

Clean the face, outside dimension and inside dimension of the coil.

Reassemble belt pulley and clutch and secure with bolt at "A".

Energize the clutch. Tighten bolt "A".

Adjust belt tension if required.

See "Adjusting the Compressor Belt Tension".

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.

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

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.

During first 100 hours of operation with shipaway oil, avoid prolonged periods of engine idling, but do not overload. 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.

LUBRICATION

Lubricate the entire tractor, using the "Lubrication Guide" and the "Lubrication Table" for reference. Check the oil levels. Refer to "Lubrication".

TIRES

Check the air pressures. See the tables for front and rear tire inflation pressures.

AIR CLEANING SYSTEM

Refer to "Air Cleaning System".

ENGINE COOLING SYSTEM

Never start or operate the engine without first checking to see if the radiator is filled to the proper level, for the prevailing temperature, with soft or rain water or antifreeze. Refer to "Cooling System". Tractors shipped in the United States and Canada have the cooling system filled with anti-freeze.

PRIMING THE TURBOCHARGER

Before starting a new engine or when the engine has been idle for a month or more, the turbo-charger must be primed. Refer to "Engine and Fuel System".

FUEL SYSTEM

Refer to "Engine and Fuel System".

PREPARING THE TRACTOR FOR EACH DAY'S WORK

Check the level of the coolant in the radiator. See "Cooling System".

Check the oil level in the engine crankcase. Also lubricate the chassis points recommended for daily service. Refer to "Lubrication Guide" and the "Lubrication Table".

Inspect the tires for general condition. See "Steering, Wheels and Tires".