



International Harvester

**Operator's Manual
for McCORMICK-DEERING**

**A-554 Diesel
and**

A-554 Kerosene

JENSALES.COM

or Call 800-443-0625

JENSALES

Operator's Manual

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Operator's Manual



McCORMICK
INTERNATIONAL

A-554 DIESEL

and

A-554 KEROSENE

Tractors

JENSALES.COM

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INTERNATIONAL HARVESTER COMPANY

OF AUSTRALIA PTY. LTD.

INCORPORATED IN VICTORIA

DISTRICT SALES OFFICES IN CAPITAL CITIES

WORKS DANDENONG GEELONG AND PORT MELBOURNE VICTORIA

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CONTENTS

DESCRIPTION	Page No.
Introduction	3
Description	4
Instruments and Controls	4 to 7
Before Starting your New Tractor	8
Preparing your Tractor for Each Day's Work	9
Operating the Carburetted Engine	10 to 13
Operating the Diesel Engine	14, 15
Driving the Tractor	16 to 18
Hitching the Implement to the Tractor	19
Operating the Independent Power Take-Off	20
Front Wheels	21
Weights	22
Pneumatic Tyres	23, 24
Starting Equipment	25 to 29
Cooling System	30
General Engine Lubrication	31
Lubricating Oil and Grease Specifications	32
Lubrication Table	33
Lubrication Guide	34 to 43
Special Attachments	44 to 59
Specifications	60 to 62
Index	63, 64

A Careful Operator

**IS THE BEST INSURANCE
AGAINST AN ACCIDENT**

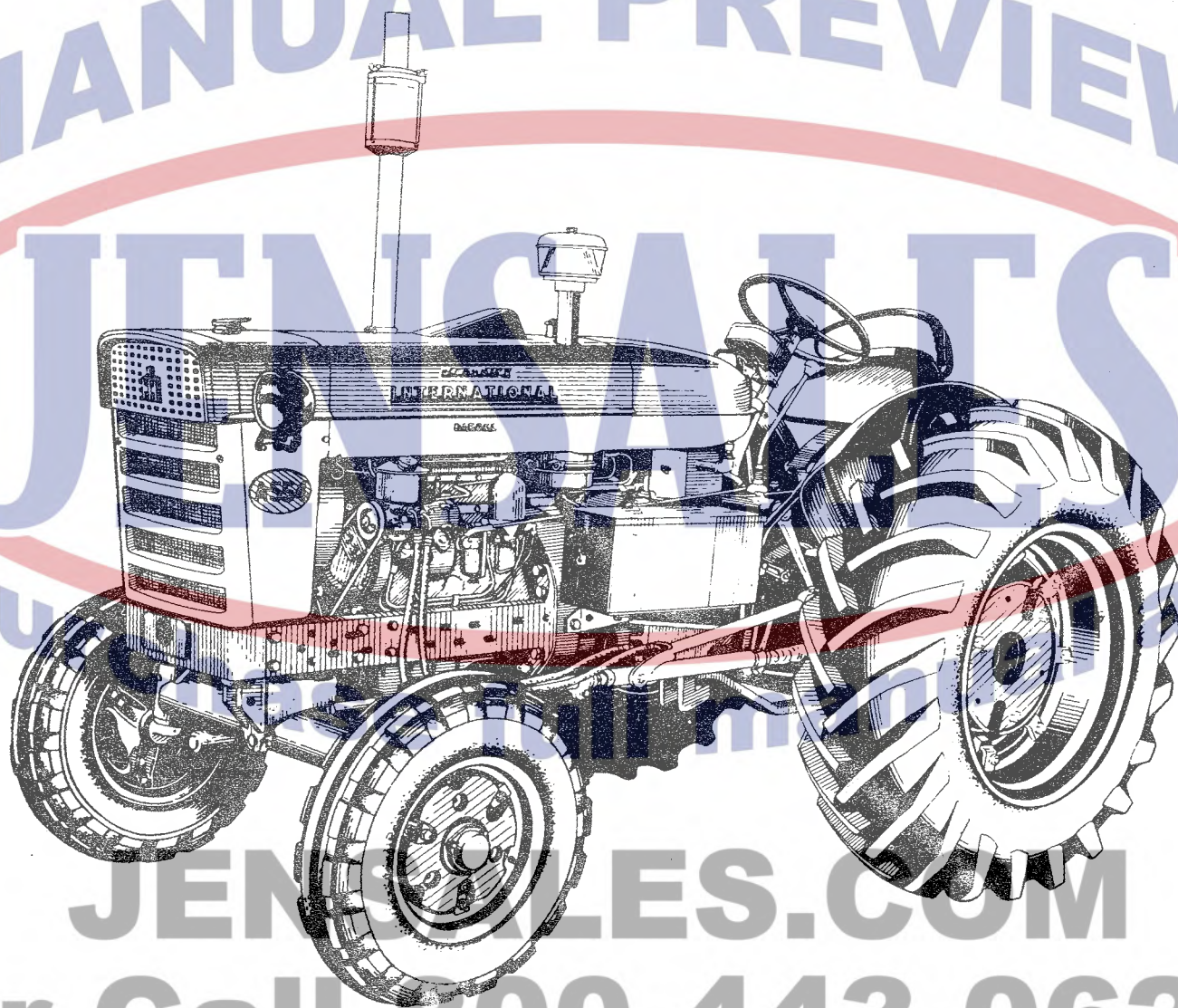
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MANUAL PREVIEW

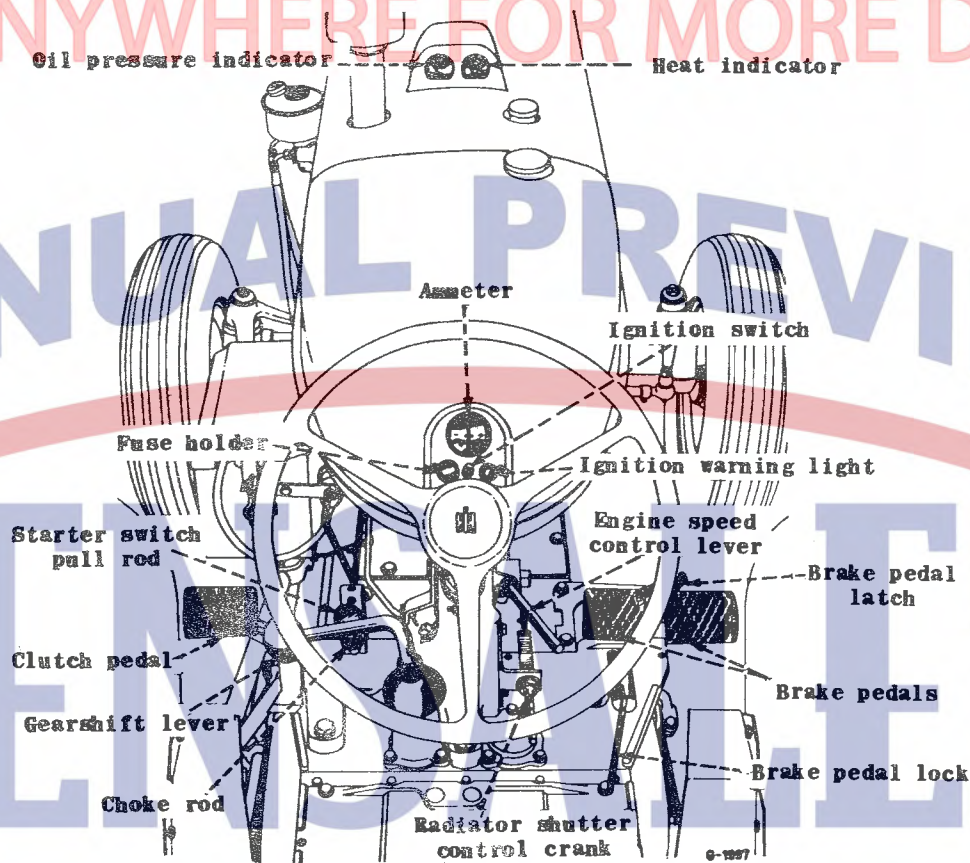


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McCORMICK INTERNATIONAL A-354 DIESEL ENGINE TRACTOR

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INSTRUMENTS AND CONTROLS



Illust. 4 - Instruments and Controls (Carburetted Engine Tractors)

BRAKE PEDALS

These pedals are used to stop the tractor, to hold the tractor in a stationary position, or to assist in making sharp turns as outlined below.

TO STOP THE TRACTOR, depress both pedals at the same time. Before driving the tractor in high gear, always latch the pedals together.

TO HOLD THE TRACTOR IN A STATIONARY POSITION, latch the pedals together, depress them, and lock them in this depressed position by using the brake pedal lock.

TO ASSIST IN MAKING A SHARP TURN, operate the pedals individually, depressing the pedal on the side toward which the turn is to be made.

THE BRAKE PEDAL LATCH (Illusts. 4 or 5) is used to latch both brake pedals together,

causing the brakes to operate simultaneously.

CAUTION: Always latch the brake pedals together when driving the tractor in high gear (Fifth speed). To latch the pedals together, engage the latch (in the back of the left pedal, Illusts. 4 or 5) in the slot in back of the right pedal. When the brake pedals are not latched together, the latch should rest in the slot in back of the left brake pedal.

THE BRAKE PEDAL LOCK (Illusts. 4 or 5) is used to lock the brake pedals in the depressed position which prevents the tractor from moving.

CLUTCH PEDAL

The clutch pedal, for the spring-loaded engine clutch, when depressed all the way, disengages the engine from the transmission.

INSTRUMENTS AND CONTROLS

GLOWPLUG SWITCH (Diesel Engine)

This switch brings into operation the heater elements or "glowplugs" in the pre-combustion chamber for easy starting.

CAUTION: THIS SWITCH MUST NOT BE KEPT "ON" FOR ANY LONGER THAN NECESSARY TO ENSURE AN EASY START. SEE STARTING PROCEDURE, PAGE 14.

ELECTRIC STARTER (Diesel Engine)

The electric starter is the only means of cranking the engine. The engine cannot be started by hand cranking.

LIGHT CONTROL SWITCH

The light control switch in the instrument box controls the front and rear lights (if equipped). When the switch is in the "S" position, the front lights are on; when the switch is in the "H" position, both front and rear lights are on.

AMMETER

This instrument indicates the charging rate of the generator or the discharge rate of the battery. If it shows discharge continuously, investigate the cause to avoid completely discharging the battery and possible damage to the generator. Refer to Preventive Maintenance Manual.

IGNITION WARNING LIGHT (Carburetted Engine)

An ignition warning light is provided in the instrument box which gives a red light when the ignition is switched on and the tractor is running very slowly or is stationary, thus reminding the operator to switch the ignition off.

Should the warning lamp bulb burn out, this will not in any way affect the ignition system, but it should be replaced as soon as possible in order to safeguard the battery.

INDEPENDENT POWER TAKE-OFF CONTROL

The shifter lever is used to engage or disengage the power take-off. Refer to page 20 for Independent Power Take-Off operating instructions.

RADIATOR SHUTTER CONTROL CRANK

The control crank (on tractors so equipped) opens and closes the radiator shutter, controlling the engine temperature. Turn the crank counter-clockwise to close the shutter and clockwise to open the shutter.

SEAT POSITION RELEASE LEVER (Agricultural Tractor)

This lever is used to hold the seat in the desired position. For additional information see page 16.

MANIFOLD HEAT CONTROL LEVER (Carburetted Engine)

The carburetted engine manifold is designed so that hot exhaust gases pass around the intake manifold and heat the incoming fuel mixture, resulting in maximum efficiency under all normal operating conditions.

The manifold heat control valve has four adjustment positions; top notch, "HOT" position; two centre notches, "INTERMEDIATE" positions; bottom notch, "COLD" position. See illust. 12

BEFORE STARTING YOUR NEW TRACTOR

LUBRICATION

CAUTION: The DIESEL ENGINE is fitted with CHROME PLATED TOP COMPRESSION RINGS. Chrome plating provides a hardened surface to resist wear. To reduce the resulting longer run-in period the crankcase is filled with a special run-in oil. Do not add detergent oil during first 10 hours of operation. At end of this 10 hours COMPLETELY DRAIN CRANKCASE AND OIL FILTER and replenish with the recommended detergent oil.

Before starting the CARBURETTED ENGINE for the first time, remove the spark plugs and add one teaspoonful of crankcase oil through the spark plug opening into each cylinder; replace the spark plugs and crank the engine to distribute the oil over the cylinder walls. This assures positive lubrication of the cylinders and pistons immediately after starting and eliminates the possibility of scoring.

Lubricate the entire tractor using the "LUBRICATION GUIDE" on pages 34 to 43.

Check the oil levels of the engine crankcase, air cleaner, transmission, power steering reservoir and all gear cases to see that they are filled to the correct levels with oil of the proper viscosity. Refer to the "LUBRICATION GUIDE" on pages 34 to 43 and to the specifications of lubricants on pages 32 and 33.

PNEUMATIC TYRES

Before moving the tractor, check the air pressure in the pneumatic tyres and inflate or deflate the front and rear tyres to the correct operating pressures. Refer to the chart on page 24.

ENGINE COOLING SYSTEM

The cooling system capacity is approximately 5 Imperial gallons. Be sure the radiator drain and crankcase water drain plugs are closed, then fill the radiator to a level approximately 2-1/4 inches below the top of the filler neck. Filling the radiator to this level will allow for expansion of the coolant under normal operating conditions. Use clean water; soft or rain water is recommended, as it does not contain alkali, which forms scale and eventually clogs the passages.

For further information refer to "COOLING SYSTEM" on page 30, and to the tractor Preventive Maintenance Manual.

FUEL SYSTEM

To obtain best results, use the fuel for which the tractor is designed, follow the operating instructions given for that fuel, and observe the following precautions:

Use clean fuel and keep it clean. Store fuel in tanks equipped with hose and nozzle to prevent contamination of the fuel. The use of funnels, cans and drums is not recommended because they are difficult to keep clean. Before attempting to use a fuel for which your tractor is not designed, see your International Harvester Dealer or the nearest International Harvester Company District Office for full details.

Carburetted Engine

Do not have the shut-off valve under the auxiliary tank and the one under the main fuel tank open, or partially open, at the same time as this will permit the kerosene to mix with the petrol making the engine hard to start.

During the first 100 hours of operation, mix one pint of light engine oil with every four Imperial gallons of fuel.

Diesel Engine

Vent the fuel system before starting the engine for the first time. See "Venting the Fuel System" on page 14.

IGNITION - ELECTRICAL

Tractors shipped from the factory have the "battery to ground" cable disconnected and taped. Therefore before attempting to start the engine be sure the "battery to ground" cable is connected to earth.

INSTRUMENTS AND CONTROLS

Thoroughly acquaint yourself with all instruments and controls as described on pages 4 to 7.