

**10-20 McCormick-Deering
Gear Drive Tractor**

Operators Manual

INT-5184A

Reprinted

CASE III



This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about your safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.

SB001

IF THIS MACHINE IS USED BY AN EMPLOYEE, IS LOANED, OR IS RENTED, MAKE SURE THAT THE OPERATOR UNDERSTANDS THE TWO INSTRUCTIONS BELOW.

BEFORE THE OPERATOR STARTS THE ENGINE:

1. GIVE INSTRUCTIONS TO THE OPERATOR ON SAFE AND CORRECT USE OF THE MACHINE.
2. MAKE SURE THE OPERATOR READS AND UNDERSTANDS THE OPERATOR'S MANUAL FOR THIS MACHINE.



IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH.

BEFORE STARTING THE ENGINE, DO THE FOLLOWING:

1. READ THE OPERATOR'S MANUAL.
2. READ ALL SAFETY DECALS ON THE MACHINE.
3. CLEAR THE AREA OF OTHER PERSONS.

LEARN AND PRACTICE SAFE USE OF MACHINE CONTROLS IN A SAFE, CLEAR AREA BEFORE YOU OPERATE THIS MACHINE ON A JOB SITE.

It is your responsibility to observe pertinent laws and regulations and to follow manufacturer's instructions on machine operation and maintenance.

See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

Instruction Book

McCormick-Deering 10-20 Gear Drive Tractor

This manual contains information which will be valuable to you during the entire life of your tractor. Rely on your manual for operating and maintenance information . . . and rely on your International Harvester dealer when in need of skilled mechanical service or genuine IHC service parts. A complete list of parts for this tractor will be supplied on request.

INTERNATIONAL HARVESTER COMPANY

180 NORTH MICHIGAN AVE.

CHICAGO, ILLINOIS, U.S.A.

(PRESERVE THIS BOOK)

Examine the tractor carefully and see that all oil holes are cleaned of paint and dirt—if any threaded oil holes are found without fitting or pipe connections, look at the Lubrication Chart. If connection is shown, and not in place, it was lost and should be replaced before starting.

Special Precautions with a New Tractor

1. Before starting a new engine, remove the spark plugs and put about one ounce of gas engine lubricating oil into each cylinder; replace the spark plugs and crank the engine to distribute the oil over the cylinder walls.
2. During the first one hundred hours of operation, mix one pint of engine oil with every five gallons of fuel.
3. Engine is filled with oil suitable for "running in" a new engine. *Before operating under load, the crankcase should be drained completely and filled with oil as specified in the "Lubrication Chart."*
4. Tractors shipped Domestic and Canada are properly filled with oil in all parts when shipped from the factory. *All oil is drained from tractors shipped Export.* However, Tractor should be checked over for proper quantities of oil before starting.
5. *Do not operate a new Tractor immediately on full load.* The Tractor should never be loaded to full capacity until it has been run for a reasonable length of time. *Do not overload the tractor at any time.*
6. When tractor lugs are attached to wheels of new tractor or when new lugs are attached to old wheels, the lug bolts should be tightened at short intervals in order that lugs may properly seat themselves.
7. *Read Instruction Book carefully.*

Caution: Based on the fire hazard and insurance regulations, we do not recommend the use of gasoline for the cleaning of parts, at least not when service is performed inside of buildings. A less inflammable fluid than gasoline should be used, such as Stoddard solvent or kerosene.

We reserve the right to make changes in design or add any improvements without incurring the obligation to install such changes on Tractors previously purchased.

Ordering Service Parts

When ordering parts, be sure to give Serial Number and Model of Tractor and name and number of Part Ordered.

This book contains, in addition to instructions for operating, instructions and illustrations pertaining to certain simple adjustments and replacements which can readily be made. However, the owner should consult the service dealer before attempting a general overhauling or when any mechanical difficulties occur, as he has the necessary equipment for doing the work.

*Specifications will be found on inside back cover.
Index will be found on page 1.*

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*NOTE:- Pages 10 to 12 are for Gasoline Operation.
Pages 5 to 9 are for Kerosene or Distillate Operation.
Page 4 is for Gasoline, Kerosene or Distillate Operation.
The balance of the book is Gasoline, Kerosene or Distillate
Operation, except as noted.*

TO OWNERS:

This Tractor is designed and built to give good performance and maximum service. Quality materials and good workmanship are employed throughout the entire unit.

The suggestions and requirements for operating outlined in this book are essential to maintain satisfactory performance and economical service. The care and daily attention given the Tractor will largely determine its maintenance cost and success of operation.

Tractor Owners should use the extensive facilities offered by McCormick-Deering and International Dealers when service is needed that requires the knowledge of an experienced service man. This is advisable as Dealers are kept informed on the best methods of servicing Tractors and are in a position to give satisfactory service.

LUBRICATION

SAE Numbers or weights of oil and lubricants recommended:

	Engine Crankcase	Magneto and Coupling	Lubricator Fittings	Air Cleaner
Summer	SAE-30 or SAE-40	Very Light or Sewing Machine Oil	Approved Lubricant SAE-160	SAE-20 or Lighter
Winter	SAE-10W or SAE-20W	Very Light or Sewing Machine Oil*	Approved Lubricant SAE-90	SAE-20 or Lighter

* Use kerosene in cold weather.

Be sure to use a mineral oil for lubricating this engine. Do not use top cylinder or valve oils.

Engine lubricating oil shall be of well refined oils, free from water, sediment, acid, resin or any other substance not derived from petroleum. Oil shall not corrode any metal used in engine construction.

Never check oil level while engine is running.

Proper lubrication is very important and instructions should be followed closely.

(See "Lubrication Chart".)

(See Special Instructions for Cold Weather Operation on pages 19 and 20.)

TRANSMISSION, FRONT AND REAR WHEELS, ETC.

	Transmission Case	Front and Rear Wheels, etc.
Summer	Approved Lubricant SAE-160	Approved Lubricant SAE-160
Winter	Approved Lubricant SAE-90	Approved Lubricant SAE-90

See Instructions on page 16 for filling Hand Lubricator.

Approved Lubricant

The lubricant used for Transmission, Rear Axles, etc., Alemite and Zerk Systems should be a good grade of oil.

SAE-160 should be used when minimum temperature is above 40° F.
SAE-90 should be used when minimum temperature is below 40° F.

The preferred lubricant should be made from mineral oil and should be free from solid materials, which are undesirable for ball or roller bearing lubrication.

OPERATING PRECAUTIONS

Read Instruction Book carefully.

Follow "Lubrication Chart."

Before cranking tractor engine, be sure:-

1. Gear shift lever is in neutral position.
2. Radiator is filled with water.
3. Engine has sufficient oil in crankcase pan.

When cranking the engine, retard spark control. Operator should take his position so as to avoid being struck by starting crank if there is a reversal of the direction of the engine from any cause whatsoever.

When starting the Tractor always engage clutch gradually, so engine will pick up the load slowly. This is particularly necessary when going up a steep hill, climbing out of ditches or when hitched to a heavy or difficult load. Never hitch to a stump or other object by means of a long chain or rope with slack so that when Tractor moves forward it will jerk into the load.

Never operate engine at more than the regular governed speed. Excessive speeds are dangerous.

Care should be exercised when Tractor is in motion to prevent accidents and personal injuries.

Do not use the clutch pedals as a foot rest; this causes undue wear on clutch parts.

Never pour cold water into radiator if engine is hot.

Do not overload the Tractor at any time.

When pneumatic tires are used, keep correct air pressure in tires.

Never fill gasoline tank when open flame is near or engine is running. Keep funnel in contact with metal of tank when pouring in fuel to avoid possibility of an electric spark igniting the gas. Be very careful about lighting matches near gasoline as the air within a radius of several feet is permeated with a highly explosive vapor.

See "Special Precautions with a New Tractor" on inside front cover.

KEROSENE, DISTILLATE OR GASOLINE OPERATION

Paragraphs are numbered to correspond with numbers on the illustrations.

PREPARATIONS FOR STARTING

LUBRICATION - (See "Lubrication Chart").

Para. Illust.

- 1 Oil engine valve levers.
Oil magneto.
Check oil level of air cleaner.
Check oil level of engine crankcase.
Check oil level of transmission case.
Check Tractor carefully with "Lubrication Chart".
If any lubrication connections are missing, replace before starting.
Lubricate each place throughout entire Tractor as instructed on "Lubrication Chart".

ENGINE COOLING SYSTEM - (Water Capacity 10 U.S. gallons Approximately).

- 2 See that drain cap is on radiator drain pipe.
 - 3 Remove radiator filler cap and fill radiator with clean water to the level of overflow pipe. Keep filled to full level. *Use soft or rain water if possible.*
 - 4 Do not pour cold water into an empty system when engine is very hot.
 - 5 In temperatures below 32° F., see *Cold Weather Operation, pages 19 and 20.*
 - 6 **NOTE:-** Provision is made in the design of this engine to use either gasoline, kerosene or distillate as fuel.

Economical use of kerosene or distillate requires different operating care of engine.

Follow instructions to obtain best results.
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Buy Now



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ebooklibonline@outlook.com