

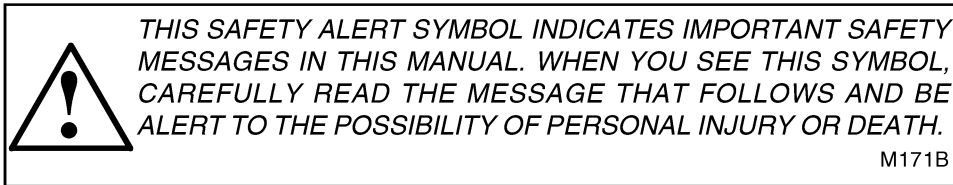
**McCormick  
International Farmall  
B-450 Diesel Tractor**

**Operator' Manual**

1026289R1

Reprinted




**CASE III**



If Safety Decals on this machine use the words **Danger, Warning or Caution**, which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation which if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates an potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation which if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as   and  if used, are RED.



# WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.

# *Operator's Manual*



**McCORMICK<sup>®</sup>**  
**INTERNATIONAL<sup>®</sup>**  
**FARMALL<sup>®</sup>**  
**B-450 Diesel**  
**Tractor**

INTERNATIONAL HARVESTER COMPANY

180 North Michigan Ave.

Chicago 1, Illinois, U. S. A.

## TO THE OWNER

We are glad to welcome you as an owner of a product of International Harvester Company. You have a fine product, designed and built to give you many years of efficient operation. The way you operate and the care you give this product will have much to do with its successful performance.

To help you operate your equipment with utmost efficiency we have provided this operator's manual. It has been carefully prepared to give you the benefit of many years of experience gained in field testing and normal usage of this and similar products.

We urge you to study this manual so you will understand your new equipment thoroughly before operating it. We also urge you to take care of your manual so you will have it available for reference when you need it.

If your manual is lost or destroyed, a new copy may be ordered from the International Harvester dealer at a nominal price. Your International Harvester dealer will also be glad to answer any questions you may have on the operation or care of this product.

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It is the policy of International Harvester Company to improve its products whenever it is possible and practical to do so. We reserve the right to make changes or add improvements at any time without incurring any obligation to make such changes on products sold previously.

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All illustrations and descriptive matter in this publication apply to International Harvester products sold under the International, McCormick, or McCormick-International trade name.

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As a member of the National Safety Council, we are privileged to use the Green Cross for Safety to designate not only our interest in Safety, but to point out more clearly the safety precautions in this manual.

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Parts Depots are strategically located at 12 points and Transfer Houses at 4 points in the United States. Ample stocks are maintained at all times to assure prompt shipment to your IH dealer to meet your requirements.

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{ Atlanta, Ga.	Columbus 16, Ohio	Kansas City 17, Kans.	Richmond 4, Calif.
(East Point, Ga.)	Dallas 22, Tex.	Memphis 6, Tenn.	St. Paul 4, Minn.
Baltimore 3, Md.			

### Transfer Houses in the United States

Broadview, Ill.	Kansas City 17, Kans.	St. Paul 14, Minn.
	Memphis 6, Tenn.	

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## INTRODUCTION

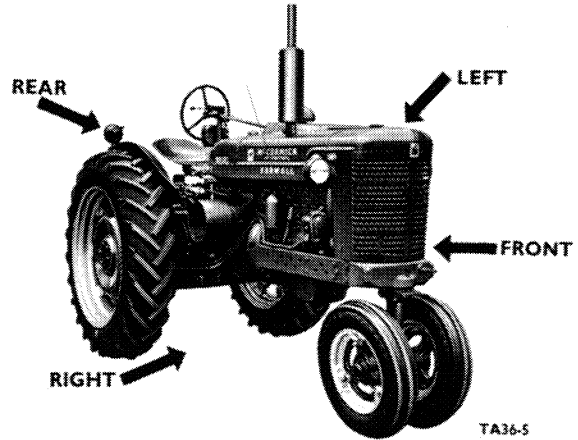
Compiled in this book are operating and maintenance instructions for the McCORMICK INTERNATIONAL FARMALL B-450 DIESEL TRACTOR. This material has been prepared in detail to help you to better understand the correct care and efficient operation of your tractor.

If you should need information not given in this manual, or require the services of a trained mechanic, get in touch with the International Harvester dealer in your locality. Dealers are kept informed on the latest methods of servicing tractors. They carry stocks of I.H. parts and are backed in every case by the full facilities of International Harvester.

Throughout this manual the use of the terms LEFT - RIGHT - FRONT and REAR must be understood to avoid confusion when following instructions. LEFT and RIGHT indicate the left and right sides of the tractor, when facing forward in the driver's seat. Reference to FRONT indicates the radiator end of the tractor; to REAR, the drawbar end (see *illust. 1*).

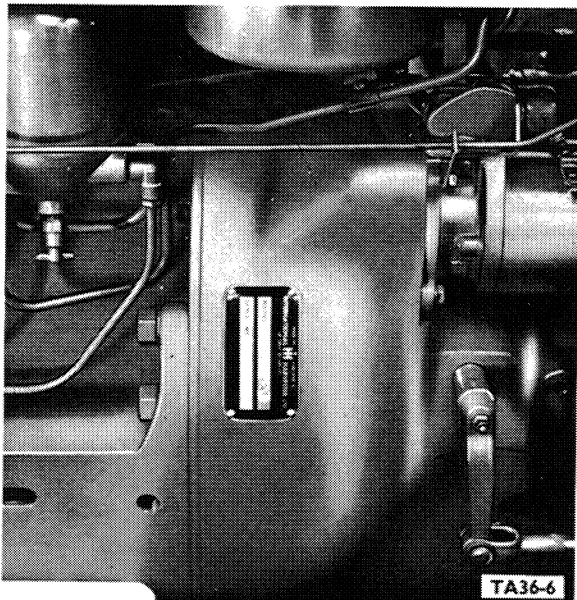
When in need of parts, always specify the tractor and engine serial numbers. The tractor serial number is stamped on a name

plate attached to the left side of the clutch housing (see *illust. 1A*). The engine serial number is stamped on the right of the engine crankcase (see *illust. 1B*). This serial number is preceded by the prefix BD-264, which indicates that it is a diesel engine with a 264-cubic inch piston displacement.

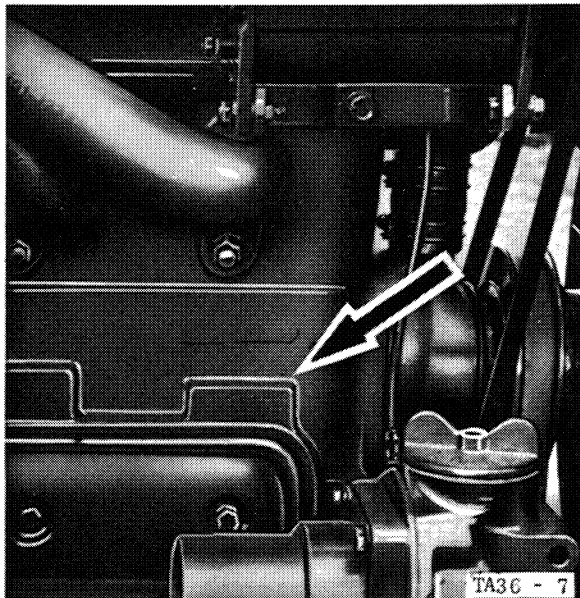


*Illust. 1 - Front, Rear, Right and Left of Tractor*

For ready reference, we suggest that you write these serial numbers in the spaces provided above the illustrations.



*Illust. 1A - Tractor Serial Number*



*Illust. 1B - Engine Serial Number*

## SPECIFICATIONS

	BRITISH	METRIC
<b>ENGINE - 4 - stroke diesel,</b>		
valve-in-head type		
I.H. model	BD-264	
Brake horse power	55	
Number of cylinders	4	
Cylinder bore	4"	101.6 mm
Piston stroke	5-1/4"	133.4 mm
Piston displacement	264 cu. in.	4.33 litres
Maximum torque	200 ft. lb.	26.65 mkg
R.P.M. at maximum torque	1,100	
 <b>SPEEDS (maximum, full load)</b>		
Engine	1500 r.p.m.	
Belt pulley (attachment)	929.55 r.p.m.	
Belt speed (11" pulley)	2677 ft. p.m.	815 metres p.m.
Power take-off shaft	555.5 r.p.m.	
 <b>ROAD SPEEDS (11 - 38 rear tyres)</b>		
Low low gear (attachment)	1.7 m.p.h.	2.8 k.p.h.
First gear	2.3 m.p.h.	4.9 k.p.h.
Second gear	3.57 m.p.h.	5.7 k.p.h.
Third gear	4.66 m.p.h.	7.5 k.p.h.
Fourth gear	6.8 m.p.h.	11.0 k.p.h.
High fourth gear (attachment)	10.1 m.p.h.	16.25 k.p.h.
Fifth gear	16.8 m.p.h.	27.4 k.p.h.
Reverse gear	2.76 m.p.h.	4.4 k.p.h.
 <b>ROAD SPEEDS (12 - 38 rear tyres)</b>		
Low low gear (attachment)	1.82 m.p.h.	2.9 k.p.h.
First gear	2.36 m.p.h.	3.8 k.p.h.
Second gear	3.68 m.p.h.	5.9 k.p.h.
Third gear	4.8 m.p.h.	7.7 k.p.h.
Fourth gear	7.0 m.p.h.	11.2 k.p.h.
High fourth (attachment)	10.39 m.p.h.	16.7 k.p.h.
Fifth gear	17.3 m.p.h.	27.8 k.p.h.
Reverse gear	2.84 m.p.h.	4.5 k.p.h.
 <b>CLUTCH</b>		
Single dry plate, spring loaded	12 in.	30.5 cm
 <b>BRAKES</b>		
Disc diameter	6-1/2 in.	16.5 cm
Number of linings each side	4	
Effective friction area (each lining)	21.4 sq. in.	138.1 sq. cm
Effective total friction area	171.3 sq. in.	1,106 sq. cm



## SPECIFICATIONS

	BRITISH	METRIC
<b>HYDRAULIC SYSTEM</b>		
Working pressure	2,000 lb./sq. in.	140.6 kg/sq. cm
Cylinder bore	3-5/8 in.	92.1 cm
Cylinder stroke	5-3/4 in.	146.1 cm
Average lifting force at end of lower links (horizontal position)	3,240 lb.	1469 kg
Maximum lifting force at automatic trailer hitch	6450 lb.	2925.7 kg
<b>CAPACITIES</b>		
Engine crankcase	2 gallons	9.1 litres
Transmission	11 gallons	50.0 litres
Cooling system	5-1/2 gallons	25.0 litres
Fuel tank	17-3/8 gallons	79.0 litres
Hydraulic system	3 gallons	13.6 litres
Air cleaner cup	2-1/4 pints	1.2 litres
<b>TRACTOR DIMENSIONS</b>		
	INCHES	CENTIMETRES
Length overall, with variable tread front axle	139.7	354.2
Length overall, with adjustable wide front axle	144.6	367.2
Tread, front		
Variable tread axle with 6.00 - 16 tyres	8, 11-1/2, 13-3/4, 16-3/4	20.3, 29.2, 34.9, 42.5
Adjustable wide front axle with 6.00 - 16 tyres in 4 in. (10.16 cm) stages	57 to 81	144.7 to 205.7
Tread, rear		
Basic axle with 11.0 - 38 tyres in 4 in. (10.16 cm) stages	52 to 72	132 to 182.8
88 in. axle with 11.0 - 38 tyres	52 to 88	132 to 223.5
100 in. axle with 11.0 - 38 tyres	52 to 100	132 to 254
Width overall		
Front Wheels		
Variable tread front axle	20 - 28-1/2	50.8 to 73.08
Adjustable wide front axle	64-1/2 to 88-1/2	163.8 to 224.7
Rear Wheels		
Basic axle with 11.0 - 38 tyres	64 to 84	162.5 to 213.3
88 in. axle with 11.0 - 38 tyres	84-1/2 to 101-1/4	214.6 to 257.1
100 in. axle with 11.0 - 38 tyres	96-1/2 to 113-1/4	245.1 to 287.6
Height to top of steering wheel	77-3/4	194.4
Wheelbase		
Variable tread front axle	89-1/8	226.3
Adjustable wide front axle	94	238.7

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