

# **200B SERIES WHEEL TRACTOR**

## **Operators Manual**

RI 9-461

Reprinted





***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.



# WARNING

**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.

## **To the Purchaser of a Case Tractor,**

The care you give your new Case tractor will greatly determine the satisfaction and service life you will obtain from it. Use this manual as your guide. By observing the instructions and suggestions in this manual, your Case tractor will serve you well for many years.

As an Authorized Case Dealer we stock Genuine Case Parts, which are manufactured with the same precision and skill as the original equipment. Our factory trained staff is kept well informed on the best methods of servicing Case equipment and is ready and able to help you.

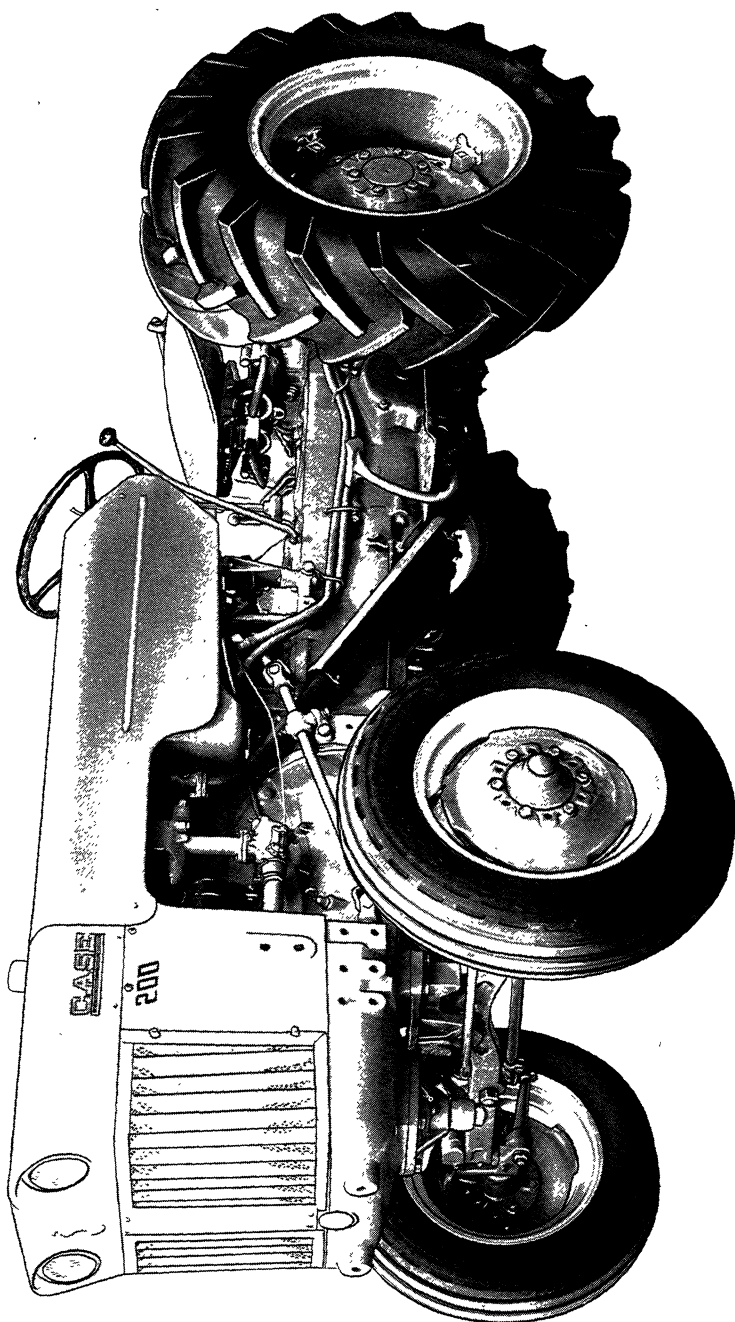
Should you require additional aid or information, contact us.

Your Authorized Case Dealer

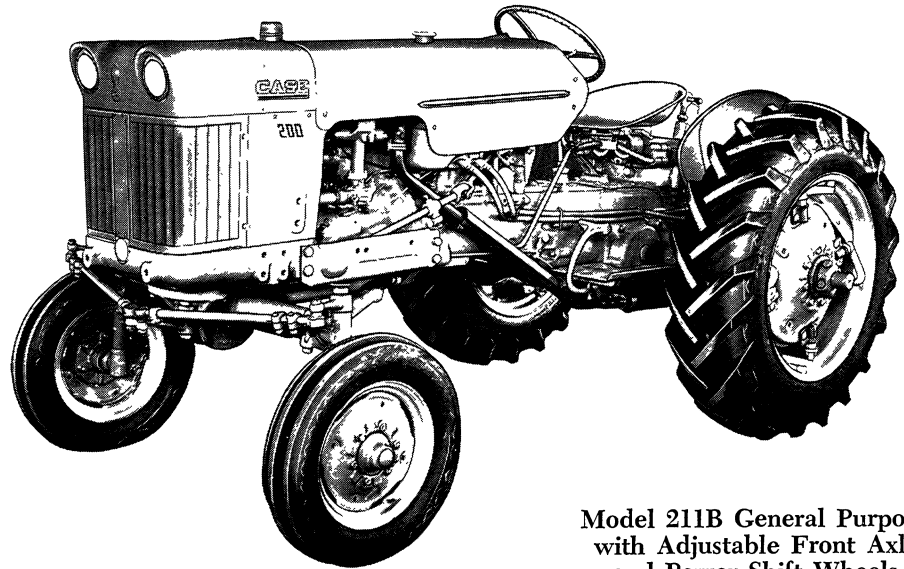
*To insure efficient and prompt service, please furnish us with the Model and Serial Number of your tractor and Serial Number of your engine, in all correspondence or contacts.*

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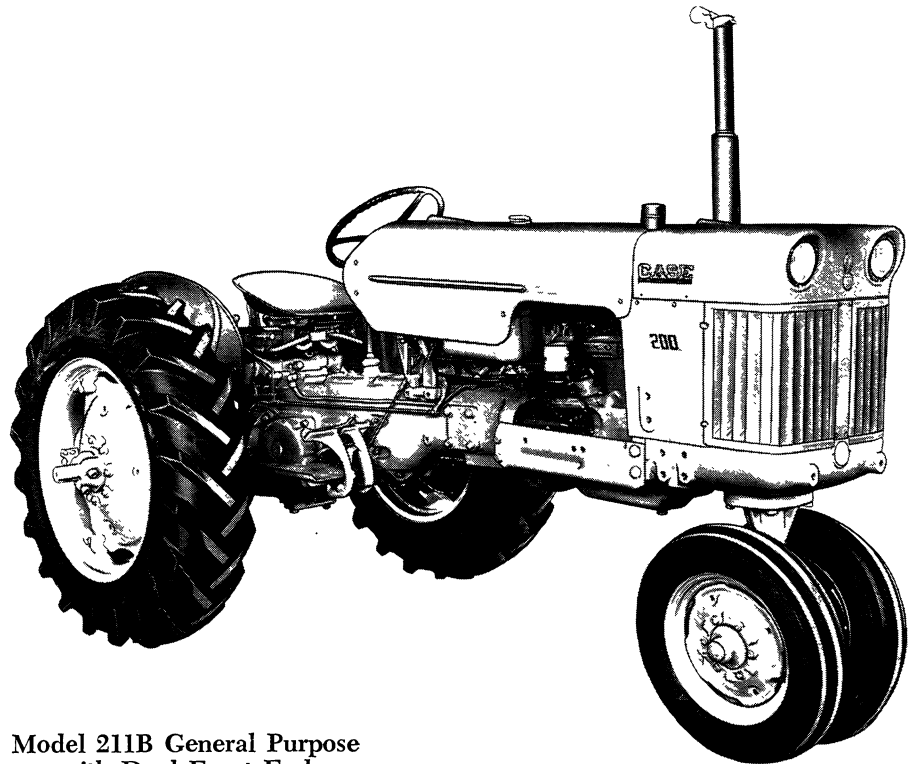
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Case Model 210B Utility Tractor



Model 211B General Purpose  
with Adjustable Front Axle  
and Power Shift Wheels



Model 211B General Purpose  
with Dual Front End

## INTRODUCTION

Here's just a few outstanding features of the Case "200B" Series Tractor:

1. **"POWR-TORQ" ENGINE.** A high-compression, heavy-duty power plant with an extremely high torque. What's more it operates on regular grade gasoline.
2. **HEAVY-DUTY CLUTCH.** New clutch design with 50% more "torque-carrying" capacity. Smooth, long-life operation.
3. **SPEED CONTROL.** "All-Speed" friction type hand throttle with finger tip, finger-ease control.
4. **CAM AND LEVER STEERING.** Smooth-as-silk, shockproof steering for accurate, instant control of front wheels.
5. **DIFFERENTIAL BRAKES.** High-capacity 6-inch double-disk, velvet touch, brakes. Simple to adjust, a breeze to service.
6. **HEAVY-DUTY TRANSMISSION.** Standard (4) speed transmission provides speeds of 2.7, 4.0, 5.2, 12.9 m.p.h. forward, and a speed of 3.2 m.p.h. in reverse. A special high speed road gear is also available as a factory installed extra.
7. **TWELVE-SPEED "TRIPL-RANGE" DRIVE (EXTRA).** This remarkable power train provides forward speeds from 1.6 to 21.5 m.p.h. and reverse speeds from 1.9 to 5.4 m.p.h. (see page 11).
8. **DUAL-RANGE SHUTTLE (EXTRA).** Provides (8) speeds forward and (8) speeds in reverse. Provides faster working cycles when using a front end loader since reverse speeds are 25% faster than forward, in any gear. (see page 11).
9. **CONSTANT-RUNNING POWER TAKE-OFF (EXTRA).** This is a "straight-line" power shaft from engine to rear shifter fork. In use, it allows the rear wheels to be stopped, while the P.T.O. shaft rotation remains at a normal 533 r.p.m.
10. **EAGLE-HITCH.** Improved, enclosed, streamlined, assembly with quick, simple implement attaching points. Handier than ever, more compact, more lifting power, greater ease of operation. And for your safety a built-in "hydraulic interlock" to prevent accidental "dropping" of mounted tools. Double control and remote cylinder system can easily be attached at any time.
11. **THREE-POINT HITCH (Swinging Draft Arms).** This is an optional hitch which will accommodate rear-mounted tools other than Case. This hitch is actuated and controlled by the same hydraulic system as the Eagle Hitch linkage.
12. **KEY STARTING.** Combination ignition switch and removable starting key.
13. **CHOICE OF MODELS.** 1. A low-silhouette Model "210B" utility tractor with a solid front axle. 2. A standard general purpose Model "211B" with dual front wheels. This model is also available with an adjustable front axle as extra equipment.

## TRACTOR SERIAL NUMBERS

When ordering parts from your Authorized Case Dealer, always specify the Serial Number and Model of your Tractor.

As a means of ready reference fill in the serial numbers along with the model number of your tractor, in the spaces provided here.

MODEL	
NO.	
J. I. Case Co., Racine, Wis.	

When ordering Tractor Parts, specify the Tractor Model and Serial Number, located on the tractor "dash."

Engine Serial Number
----------------------

Use the Engine Serial Number, stamped on the right side of the engine block, when ordering Engine Parts.

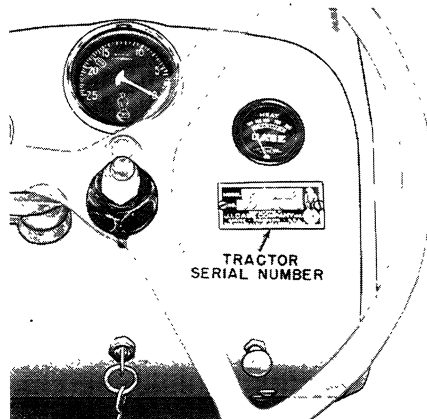


Fig. 1. Tractor Number

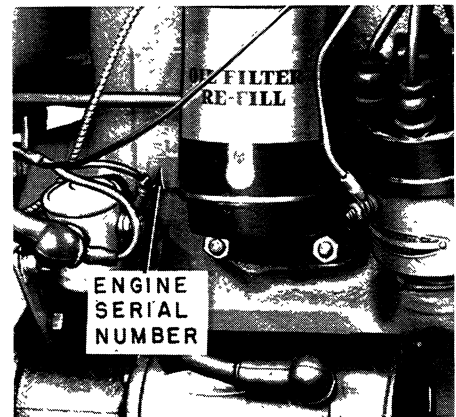


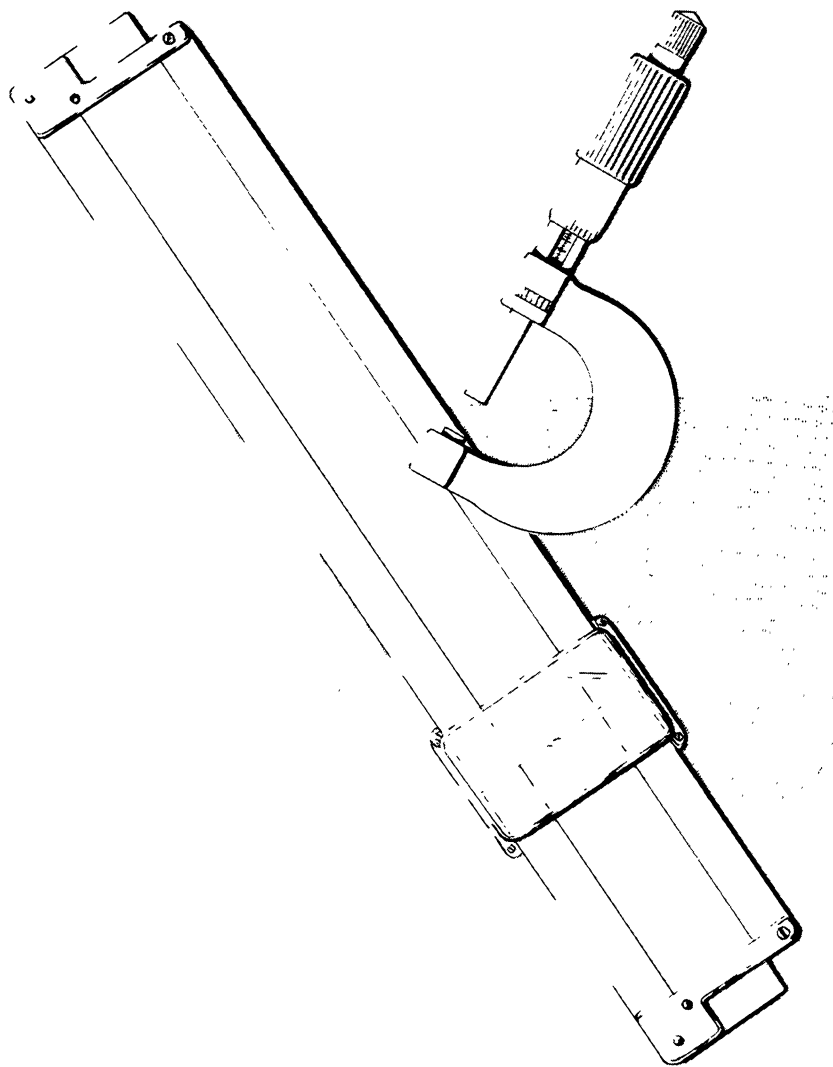
Fig. 2. Engine Number

The information compiled in this manual covers the operation and preventive maintenance on the Case "200B" Series Tractor. It is our hope that this manual will help you to understand the correct care and use of this tractor.

If you should require additional information or services of a trained mechanic, be sure to see your authorized CASE DEALER.

NOTE: The terms "Right Hand" and "Left Hand" whenever used in this manual apply to the tractor when facing in the direction the tractor will move in forward operation.





## **GENERAL SPECIFICATIONS**

## GENERAL SPECIFICATIONS

### Engine (Gasoline)

#### GENERAL

Type ..... Four Cylinder; Overhead Valve  
Firing Order ..... 1 - 3 - 4 - 2  
Cylinder Bore ..... 3 $\frac{1}{8}$ "  
Stroke ..... 4 $\frac{1}{8}$ "  
Piston Displacement ..... 126.5 cubic inches  
Compression Ratio ..... 7.5 to 1  
Valve Guides ..... Replaceable  
Exhaust Valve Rotators ..... Positive Type  
Valve Clearance ..... .014 (cold)  
Cylinder Sleeves ..... Wet Replaceable Type  
Air Cleaner ..... Oil Bath Type  
Full Load Engine Speed ..... 1900 R.P.M.  
No Load Engine Speed ..... 2050 R.P.M.  
Engine Idling Speed ..... 500 R.P.M.  
Governor Type ..... Case Sensitive Flyweight  
Engine Speed Control ..... Friction Type Hand Control  
..... Foot Throttle Control (Extra)

#### PISTONS AND RODS

Rings Per Piston ..... 4  
Number of Compression Rings ..... 3  
Number of Oil Rings ..... 1  
Piston Pins ..... Full Floating  
Connecting Rod Bearings ..... Precision Insert Type

#### MAIN BEARINGS

Number of Bearings ..... 3  
Type of Bearings ..... Precision Insert Type

#### ENGINE LUBRICATION SYSTEM

Oil Pressure ..... 14-20 lbs. (at 1900 R.P.M.)  
Oil Pump ..... Gear Type with Floating Intake  
Oil Filter (extra) ..... Replaceable Cartridge

#### FUEL SYSTEM

Carburetor ..... 1" S.A.E. Flange  
Fuel Strainer ..... In Sediment Bowl Under Tank

#### COOLING SYSTEM

Pressurized System with 4 lb. Pressure Cap  
Radiator ..... Tube and Fin Construction  
Temperature Control ..... Thermostat  
Fan ..... 16" Four Blade, Belt Driven  
Water Pump ..... Sealed, Pre-lubricated Bearings

## ELECTRICAL AND IGNITION SYSTEM

Ignition Switch ..... Includes Key Starting  
Battery (dry charge type) ..... 6 Volt, 100 Amp. Hr. Positive Post Grounded  
Spark Plugs: Champion # 8 Comm. 64K (or equivalent), Thread 18 mm. Gap .025"  
Distributor (Standard) ..... Automatic Advance 26°  
Point Gap — .020"  
Magneto (Optional) Case No. 41 ..... Magneto Advance 25°  
Point Gap — .008" — .012"  
Generator (3-brush type) Third brush not adjustable ..... With Voltage Regulator  
Starting Motor ..... With Sealed Starter Drive  
Head Lights (Extra) ..... 6 Volt, Sealed Beam Units  
Rear Light (Extra) ..... 6 Volt, Combination Tail and Flood with Electrical Outlet  
for Safety Light Attachment  
Fuse ..... 20 Amp. in Light Circuit

## FLYWHEEL CLUTCH (FOOT OPERATED)

Type ..... Single Plate, Dry Disk, (9¼" dia.)  
Throw-Out Bearing ..... Sealed, Ball-Thrust

## STANDARD TRANSMISSION

Case ..... Heavy Cast-Iron Unit Construction  
Speeds ..... 4 Forward; 1 Reverse  
‡ High Speed 4th Gear (Extra Equipment)

## TRIPL-RANGE DRIVE (EXTRA)

Speeds ..... Provides (12) Speeds Forward, and (3) Speeds Reverse

## ‡\*DUAL RANGE SHUTTLE (EXTRA — UTILITY ONLY)

Speeds ..... Provides (8) Speeds. Forward and (8) Speeds. Reverse  
\*(Cannot be used with Constant-Running P.T.O., Tripl-Range or Belt Pulley)

## BRAKES

Type ..... Heavy Duty, 6-inch Double Disk Differential Brakes  
Pedals ..... Can Be Locked Together or Operated Independently  
Pedal Catch for Parking or Belt Work

## STEERING GEAR AND FRONT AXLES

Steering Gear Type ..... Cam and Lever gear with center-line control  
Front Axle Type ..... Model 211B Tractors; Dual or Adjustable Front Axles  
Model 210B Utility Tractors, Fixed Front Axle

## POWER TAKE-OFF (EXTRA)

Output Shaft ..... Standard 1½" A.S.A.E.  
Rotation ..... Clockwise (from rear)  
Speed ..... 533 R.P.M. (at 1750 R.P.M. engine speed)  
Method of Engagement ..... Hand Shift Rod at Rear of Tractor  
Height from Drawbar to Centerline of P.T.O. Shaft ..... 10"

‡Factory Installation Only

## CONSTANT-RUNNING POWER TAKE-OFF (EXTRA)

(With Multiple Plate Clutch)

Output Shaft, Size, Rotation and Position.....(same as standard P.T.O.)  
Method of Engaging.....Tractor Foot Clutch Pedal  
Hand Lever (To Control Engine Power to Tractor Rear Wheels)  
Size and Type of Clutch.....Wet Type — 5 inch Dia., 9 plate

## BELT PULLEY ATTACHMENT (EXTRA)

Pulley Diameter .....9¼"      Face Width.....6⅝"  
Location .....Right Side of Tractor  
Full-Load Speed .....1290 R.P.M. at 1900 Engine R.P.M.  
Belt Speed Per Min., Full Load.....3,193 Ft. Per Min.

## EAGLE HITCH AND HYDRAULIC SYSTEM (EXTRA)

Type System .....Single acting with Floating Piston  
Hydraulic Pump .....Continuous Running  
Relief Valve Pressure .....1000 to 1100 P.S.I.  
Control.....Hand operated (with Adjustable Limit Stops)  
Filter.....Edge-Wound Paper Element (Removable for Cleaning)  
Safety Interlock.....Built-in Unit, Prevents Accidental "Dropping" of Implements  
Fluid Recommendations.....S.A.E. 10W-30 Multi-Viscosity Engine Oil

## THREE-POINT HITCH (SWINGING DRAFT ARMS) (EXTRA)

Type.....Flexible Swinging Draft Arms with Ball Couplers  
Hydraulic System.....Same System and Controls as Eagle Hitch  
Stabilizer Bars and Stay Chains Available for Rigid Draft Arm Action

## REMOTE (PORTABLE) CONTROL SYSTEM (EXTRA)

Remote (Portable Cylinder).....3¼" Dia. 8" Stroke  
Remote Cylinder Control.....Stacked Control Valve with Matched Controls  
and Control Lever  
Remote Cylinder Couplings.....Case Quick-Detachable Breakaway Couplings  
with Dust Plugs

## APPROXIMATE CAPACITIES

		U.S.	Imperial
Cooling System	(Quarts)	12	10.02
Engine Crankcase	(Quarts)	4	3.34
	(with filter) (Quarts)	5	4.18
Air Cleaner Oil Cup	(Pints)	1	0.83
Hydraulic System (Torque Tube)	(Quarts)	12	10.02
Fuel Tank	(Gallons)	13	10.86
Transmission Case (Model 211B)	(Gallons)	7	5.85
	(Change) (Gallons)	6	5.01
Transmission Case (Model 210B)	(Quarts)	17	14.20

## TIRE AND WHEEL EQUIPMENT

	General Purpose Tractor	Utility Tractor
Front Tires (Standard) .....	5.00-15	5.50-16
Front Tires (Optional) .....		6.00-16
Rear Tires (Standard) .....	10-28	10-24
Rear Tires (Optional) .....	11-28	10-24

### APPROXIMATE TRAVEL SPEEDS (1900 R.P.M.)

Standard Transmission	General Purpose Tractor		Utility Tractor	
	10-28 Tires	11-28 Tires	10-24 Tires	11-24 Tires
First Speed	2.7 m.p.h.	2.8 m.p.h.	2.5 m.p.h.	2.6 m.p.h.
Second Speed	4.0	4.1	3.6	3.8
Third Speed	5.2	5.4	4.7	5.0
Fourth Speed	12.9	13.4	11.7	12.2
Reverse	3.2	3.3	2.9	3.0

Tripl-Range Drive	General Purpose Tractor		Utility Tractor	
	10-28 Tires	11-28 Tires	10-24 Tires	11-24 Tires
First Speed	1.6 m.p.h.	1.7 m.p.h.	1.5 m.p.h.	1.5 m.p.h.
Second Speed	2.4	2.5	2.2	2.3
Third Speed	2.7	2.8	2.5	2.6
Fourth Speed	3.1	3.3	2.8	3.0
Fifth Speed	4.0	4.1	3.6	3.8
Sixth Speed	4.5	4.7	4.1	4.3
Seventh Speed	5.2	5.4	4.7	5.0
Eighth Speed	6.6	6.9	6.0	6.3
Ninth Speed	7.7	8.0	7.0	7.4
Tenth Speed	8.7	9.1	7.9	8.3
Eleventh Speed	12.9	13.4	11.7	12.3
Twelfth Speed	21.5	22.4	19.5	20.4
First Reverse	1.9	2.0	1.8	1.8
Second Reverse	3.2	3.3	2.9	3.0
Third Reverse	5.4	5.6	4.9	5.0

### DUAL RANGE SHUTTLE SPEEDS\*

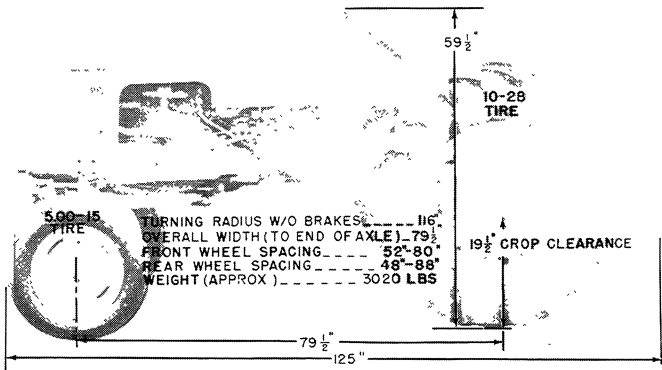
	Low Range				Direct Range			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th
Forward	1.4	2.1	2.8	9.3	2.3	3.3	4.5	15.0
Reverse	1.8	2.6	3.4	11.6	2.9	4.2	5.5	18.8

\*@1900 r.p.m. with 10-24 Tires

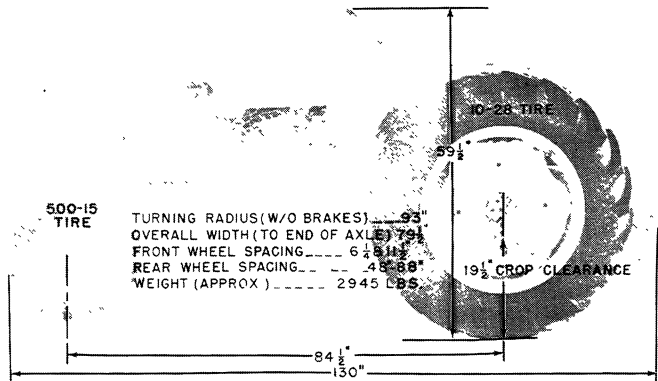
	Low Range				Direct Range			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th
Forward	1.6	2.3	3.0	10.0	2.5	3.7	4.8	16.2
Reverse	1.9	2.8	3.7	12.5	3.1	4.5	6.0	20.2

\* @ 1900 r.p.m. with 11-24 Tires

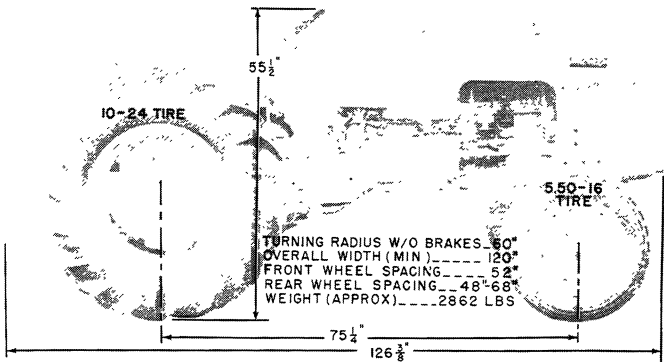
# **GENERAL DIMENSIONS**



**Fig. 3. Model 211B – General Purpose – Adjustable Axle**



**Fig. 4. Model 211B – General Purpose – Dual Front End**



**Fig. 5. Model 210B – Utility Tractor**

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