



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.

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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 in all correspondence or contacts.

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SERIAL NUMBER

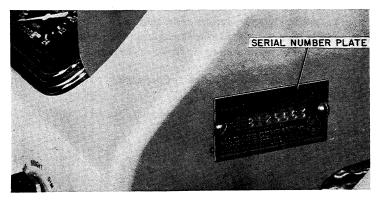


Figure 1

When ordering parts from your Authorized Case Dealer and in all contacts or correspondence with your dealer relative to the tractor, always specify the Serial Number and Model of your tractor.

The model and serial number are stamped on the number plate located on the side of the instrument panel Figure 1. The serial number is also stamped on the left rear side of the engine block near the air cleaner, Figure 2.

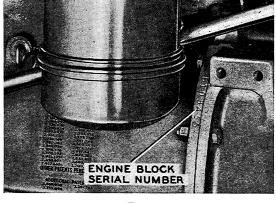


Figure 2

For reference, fill in the Serial number and Model of your Case Tractor in the space provided below

Model No._____ Serial No._____

Model Designations

740 and 840 — Standard 4 Wheel Tractors
741 and 841 — General Purpose Tractors
742 and 842 — Special 4 Wheel Tractors
843 — High Clearance Tractors

INTRODUCTION

The Case 730 and 830 Series Tractor is powered by a rugged four cylinder spark ignition engine which features heavy duty precision type construction usually found only in diesel engines. This engine is noted for its quiet operating characteristics and economy of operation.

Advanced engineering also includes the following outstanding features on the 730 and 830 Series Tractors.

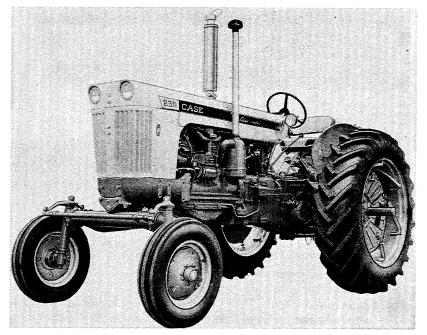


Figure 3

Case-O-Matic Drive

The Case-O-Matic Drive with its 8 "work ranges" in both Direct and Torque Converter Drive gives the exact speed for every job on the farm. Refer to page 5.

"Comforized" Platform

The Deluxe Seat, easily accessible operating controls, lighted "Tell Easy" instruments; all features designed with the operator's comfort in mind are standard equipment on Case 730 and 830 Series Tractors.

Wide Range of Easily Adjustable Wheel Spacings

Both front and rear wheel treads can be adjusted on 730 and 830 Series Tractors for the various row spacings in a matter of minutes. One man can easily move the tire and rim to any of the tread positions.



Figure 4

Easy handling...comfort...automatic control... an entirely

new experience in tractor operation.

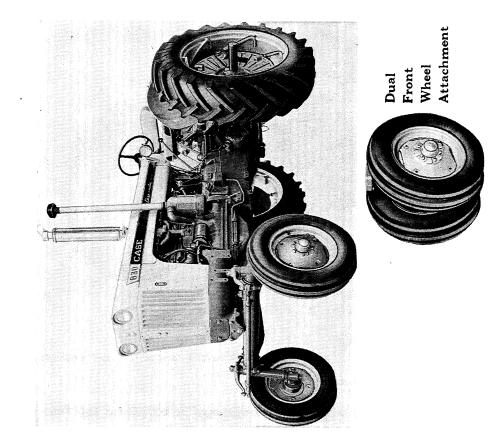
Case-o-matic Drive with its 8 "working ranges" in both Direct and Torque Converter drive give the exact speed for every job on the farm.

Heavy Tillage - Case-o-matic drive allows you to use a higher working range—can be operated in direct drive for maximum speed—simply flip into torque converter drive for additional power necessary to pull up a hill or for heavy draft demands.

Cultivating or Planting - Torque converter drive and tiptoe acceleration give you complete control of travel speed for turning at the head lands or when approaching small plants.

Harvesting - Direct drive may be desirable for most harvesting operations. When heavy crops tend to overload your harvester, flip into torque converter drive and slow down forward speed while engine and PTO RPM stay high to clear the machine.

Hauling and Chore Work - Torque converter drive gives you that smooth easy start when transporting loads in 8th working range—after the load is moving, switch to direct drive for maximum speed.



Single Front Wheel Attachment

Adjustable Front Axle Attachment

MODEL 841 GENERAL PURPOSE TRACTOR

3 Tractors In

6



1

NOTE: The J. I. Case Company reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

GENERAL SPECIFICATIONS FOR CASE 730 AND 830 SERIES TRACTORS (Spark Ignition Engine) ENGINE

General

TypeValv	4 Cylinder, 4 Stroke Cycle, ve-in-Head, Spark Ignition Engine
Firing Order	
Bore (730 Series)	
Stroke	
Piston Displacement (730 Series) (830 Series)	
Cylinder Sleeves	Removable, Wet Type
Full Governed Engine Speed at No Load	(Approximate)2060 RPM
Full Governed Engine Speed at Full Load	1
Engine Idling Speed	
Valve Tappet Clearance	Intake .015 Inch (Cold) Exhaust .025 Inch (Cold)
Exhaust Valve Rotators	Positive Type
Engine Hour Meter	Standard Equipment
Piston Rings	
Rings Per Piston	4
Number of Compression Rings	
Number of Oil Rings	
Piston Pins	
Type Pins	
Connecting Rods	
Type Bearings	Replaceable Precision, Steel Back, Copper Lead Alloy Liners
Main Bearings	
Number of Bearings	
Type Bearings	Replaceable Precision, Steel Back, Copper Lead Alloy Liners
	45 Dave de mith De sine Warm and
	Operating at Full Governed RPM
Type System	
Oil PumpGe	
Oil Filter	Replaceable Full Flow Element

IGNITION AND ELECTRICAL SYSTEM

Type of System12 Volt, Negative Ground
BatteriesOne 12 Volt Battery (Group 12H 13 Plates 70 Ampere Hours at 20 Hour Rate)
Generator
Voltage RegulatorAutomatic Type, Mounted on Generator
Starting Motor
Headlights12 Volt, 35 Watt, Sealed Tractor Unit
Rear LightCombination Red Tail Light for Safe Night Road Travel and White Flood Light for Night Work
Rear Light Bulb Sizes 12 Volt, 35 Watt, Sealed Unit Small Bulb — 15 C.P. Single Contact 12 Volt
Instrument Panel Light Bulb Size4 Bulbs, 1.5 C.P. Single Contact, 12 Volt
Fuse
Electrical Outlet Socket
(Model 743 and 843—Extra Equipment)
Red Warning Lamp12 Volt; for use with Electrical Outlet Socket(Extra Equipment)and Pull Behind Equipment

Distributor Ignition (Standard Equipment)

Automatic	: Advance	
Gasolin	e (730 Series) at 1900 RPM27	7°
	(830 Series) at 1900 RPM)°
LP Gas	(730 Series) at 1900 RPM	7°
	(830 Series) at 1900 RPM	1°
Distrib	tor Contact Point Gap	h
Dwell A	ngle45	5°

Magneto Ignition (Optional Equipment)

Magneto Point Gap	
Spark Plugs (Gasoline)	Champion D16, or Equivalent
(LP Gas)	Champion D-9 or Equivalent
Thread	
(LP Gas)	
Shank Length	1/2 Inch

FUEL SYSTEM

Fuel SystemGravity Flow
Carburetor, Gasoline
Float Level $\frac{1}{4}$ Inch from Gasket to Nearest Surface of Float
Load JetAdjustable
FlangeSAE 1¼ Inch
Carburetor, LPGEnsign Model XG
Fuel Strainer or Filter
GasolineBrass Screen
LPG
COOLING SYSTEM
Type of SystemPressurized, Thermostat Controlled By-Pass Type; Forced Circulation (Impeller Type Pump)
RadiatorHeavy Duty Tube and Fin Type
ThermostatStarts to Open at 180°F. Fully Open at 195°F.
Radiator ShuttersAvailable as Extra Equipment
Cooling System Pressure
Pressure CapCooling System Requires a 4PSI Pressure Cap

CASE-O-MATIC DRIVE

Case-O-Matic Drive
Main Traction - Clutch
Direct Drive ClutchSingle Disc, Hydraulically Actuated, Engages Engine Directly with Transmission, By-Passing Torque Converter
Type Torque Converter13 Inch, Single Stage
Fluid RecommendationSee page 13
Transmission CaseHeavy Cast Iron One Piece Unit Construction Containing All Gears, Shafts, Bearings, Differential and Final Drive
Final Drive

BRAKES

Туре	Heavy Duty, Double Disc, Self Energizing Differential Brakes
	Can Be Locked Together for Road Travel; Can Be Used Individually for Steering Assistance

DRAWBAR

TypeReversible Full Swinging Roller Mounted Self Locking
Drawbar Pin Hole SizeWill Accommodate 1 Inch Pin
Height
BELT PULLEY (Extra Equipment)
Method of EngagingPTO Clutch Hand Lever
Pulley Diameter
Pulley Face Width
Pulley Speed at No Load Governed Engine Speed of Approximately 2060 RPM.(545 RPM PTO Attachment)1112 RPM (1000 RPM PTO Attachment)1370 RPM
Pulley Speed at Full Load Governed Engine Speed of 1900 RPM (545 RPM PTO Attachment)
Pulley Speed at 600 RPM Engine Idling Speed (545 RPM PTO Attachment)
Belt Speed (545 RPM PTO Attachment)2820 Feet Per Minute Under Load (1000 RPM PTO Attachment)3470 Feet Per Minute Under Load
Ratio Engine Speed to Belt Pulley Speed (545 RPM PTO Attachment) (1000 RPM PTO Attachment)
INDEPENDENT POWER TAKE-OFF
(Extra Equipment)
Rotation
PTO Shaft Speed at 1700 Engine RPMEither 545 or 1000 RPM
PTO Shaft Speed at 600 RPM Idle Speed (545 RPM PTO Attachment)
Spline SizeStandard 13/8 Inch Diameter
Location on Tractor
Distance from Center of PTO Shaft to Top of DrawbarSee Figures 69 thru 71. Pages 72 and 73
Method of EngagingPTO Clutch Hand Lever
Type PTO ClutchOil Bath, Multiple Disc, Over Center Adjustable Type with Cone Brake
Fluid RecommendationAutomatic Transmission Fluid — Type A or Case Hi Lo-TCH
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HYDRAULIC CONTROL SYSTEM

(Model 741 & 841 Tractors Only — Standard Equipment) (All Other Model Tractors — Extra Equipment)

General for All 730 and 830 Series Tractors

PumpLarge Volume, Spur Gear Continuous Running Dual Valve
Volume
Type Valve Control
Coupling for Portable CylinderCase Quick Detachable Breakaway Type
Oil FilterEdge Wound Paper Element; Removable for Cleaning
Fluid RecommendationsAutomatic Transmission Fluid — Type A or Case Hi Lo-TCH

Eagle Hitch Equipped Tractors

Type SystemEagle Hitch Draft Arms Raise and Lower Under Pressure (Double Acting). Additional Lever Position for Float Control Portable Cylinder Extends and Retracts	
Under Pressure (Double Acting) Relief Valve Opening Pressure	
Mounted Cylinder4 Inch Diameter, 6 Inch Strøke	
Portable Cylinder $3\frac{1}{4}$ Inch Diameter, 8 Inch Stroke	

Tractors Not Equipped with Eagle Hitch

	Couplings Provided for 2 Portable Hydraulic Cylinders (Both Double Acting)
Portable Cylinder	$\dots 3\frac{1}{4}$ Inch Diameter; 8 Inch Stroke
Relief Valve Opening Pressure1100 PSI	

NOTE

The Hydraulic Control System Does Not Include the Portable Cylinder. The Portable Cylinder Must Be Ordered Separately. Thank you so much for reading. Please click the "Buy Now!" button below to download the complete manual.



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