



J.I. Case

Operator's Manual

D Series

Operator's Manual

JENSALES.COM

or Call 800-443-0625



THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
J.I. CASE OR IT'S SUCCESSORS. J.I. CASE AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

CA-O-D

Make: Ji Case	Model: D	Years Made: 1953-1953
HP-PTO: 35	HP-Engine:	HP-Drawbar: 31
HP-Range: 35	Engine-Make: CASE	Engine-Fuel: GAS
Engine-Cyl(s)-CID: 4/259.5	Transmission-STD: SG	Optional:
Fwd/Rev Standard: 4/1	Fwd/Rev Optional:	Mfwd-Std/Opt:
Tires-Std Front: 6.00-16	Tires-Std Rear: 12-26	Wheelbase-Inch:
Pto Type:	Pto Speed:	CAT I-3pt Hitch: False
CAT II-3pt Hitch: False	CAT III-3pt Hitch: False	Hitch Lift:
Hydraulics-Type:	Hyd-Cap:	Hyd-Flow:
Hyd Std Outlets:	Cooling Capacity:	Fuel Tank Capacity:
Cab-Std/A/C; Rops:	Weight: 4600	New Price: 2494

Make: Ji Case	Model: DC	Years Made: 1949-1955
HP-PTO: 37.28	HP-Engine:	HP-Drawbar: 33.0
HP-Range: 37	Engine-Make: CASE	Engine-Fuel: GAS
Engine-Cyl(s)-CID: 4/	Transmission-STD: SG	Optional:
Fwd/Rev Standard: 3/1	Fwd/Rev Optional:	Mfwd-Std/Opt:
Tires-Std Front: 6.00-16	Tires-Std Rear: 11-38	Wheelbase-Inch:
Pto Type:	Pto Speed:	CAT I-3pt Hitch: False
CAT II-3pt Hitch: False	CAT III-3pt Hitch: False	Hitch Lift:
Hydraulics-Type:	Hyd-Cap:	Hyd-Flow:
Hyd Std Outlets:	Cooling Capacity:	Fuel Tank Capacity:
Cab-Std/A/C; Rops:	Weight: 5300	New Price: 2633

Make: J.I. Case	Model: DO	Years Made: D Series
Factory: n/a	Chassis: n/a	Wheelbase: n/a
Front tire: n/a	Rear tire: n/a	Weight: n/a
Length: n/a	Width: n/a	Height: n/a
Elec. Grounding: n/a	Elec. Charging Amps: n/a	Elec. Volts: n/a
Hitch Rear Type: n/a	Hitch Rear Lift: n/a	Fuel Capacity: n/a
Hydraulics Type: n/a	Hydraulics Capacity: n/a	Hydraulics Pressure: n/a
Hydraulics Valves: n/a	Hydraulics Total Flow: n/a	Hydraulics Valve Flow: n/a
Steering: n/a	Brakes: n/a	New Price: n/a
Hyd Std Outlets:	Cooling Capacity:	Fuel Tank Capacity:
Cab-Std/A/C; Rops:	Weight: 2800	New Price: 1710

PLATE FASTENED TO INSTRUMENT PANEL for the D		
<u>Year</u>		<u>Beginning Serial Number</u>
1938		4200001
1939		4300001
1940		4400001
1941		4500001
1942		4600001
1943		4700001
1944		4800001
1945		4900001
1946		5000001
1947		5100001
1948		5200001
1949		5300001
1950		5400001
1951		5500001
1952		5600001
1953		5700001

D: STANDARD-TREAD
DC: ROW CROP
DI: INDUSTRIAL
DO: ORCHARD

Paint Codes		
Location		MFG Color Name
RIMS		ALUMINUM
BODY		FLAMBEAU RED

Operator's Instruction Manual

CLICK ANYWHERE FOR MORE DETAILS

CASE

REGISTERED IN U. S. PATENT OFFICE

MODEL D SERIES TRACTOR

LIVE POWER TAKE-OFF

EAGLE HITCH

JENSALES.COM

First Edition

or Call 800-443-0625

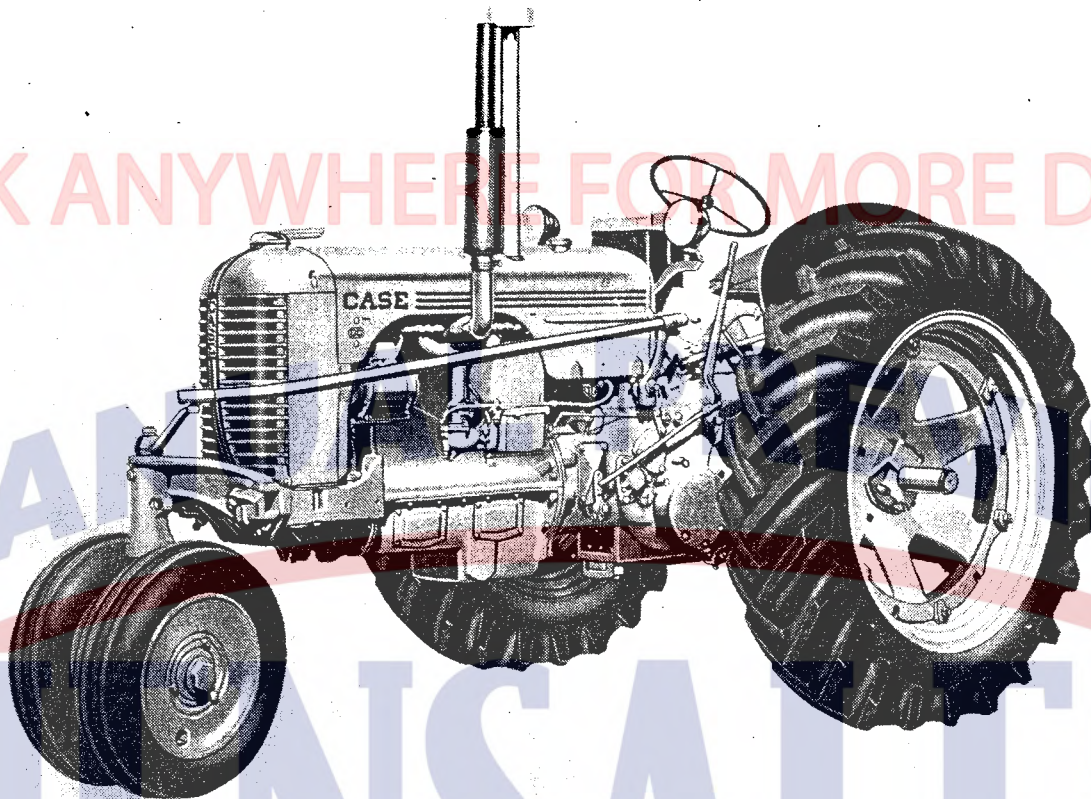
J. I. Case Co.

RACINE, WISCONSIN - U.S.A.

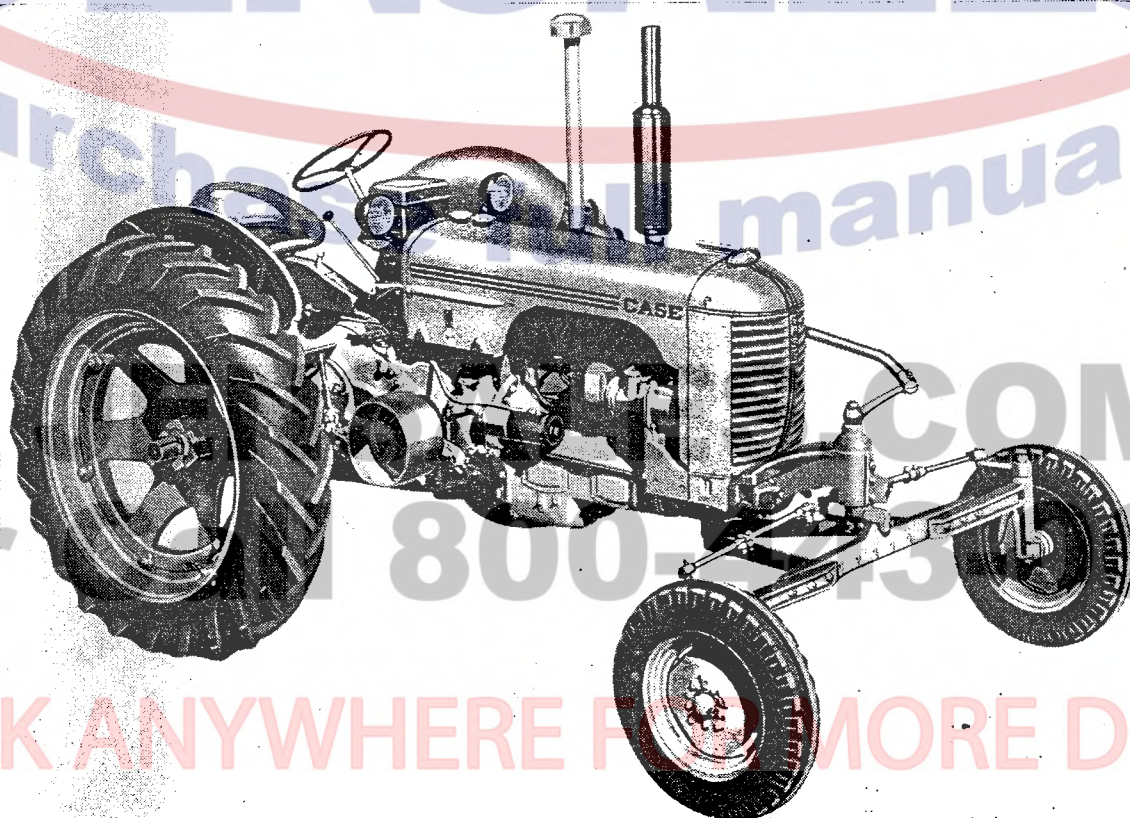


TABLE OF CONTENTS

	Page
SERIAL NUMBER.....	6
GENERAL SPECIFICATIONS.....	7
LUBRICATION.....	15
Recommended Engine, Transmission and Hydraulic Lubricants.....	17
Lubrication Points.....	18
Engine Lubrication.....	22
Transmission Lubrication.....	24
Model DS Tractor Rear Axle Drive Housing.....	26
Hydraulic Control.....	26
Live Power Take-off.....	28
OPERATING INSTRUCTIONS.....	29
Important Pre-starting Information.....	31
Starting Instructions.....	33
Rear Wheel Traction.....	36
Drawbar.....	38
Steering the Tractor.....	39
Hydraulic Control Unit.....	40
Eagle Hitch.....	44
Live Power Take-off.....	51
Belt Pulley Work.....	53
Wheel Spacing.....	54
Fuels and Fuel Storage.....	57
Low Cost Fuel Tractors.....	59
Periodic Checks During Operation.....	61
MAINTENANCE.....	63
Lubrication.....	65
Cooling System.....	65
Air Cleaner.....	71
Fuel Strainer.....	72
Carburetor.....	73
Governor and Engine Speed.....	74
Valve Clearance.....	76
Oil Pump.....	77
Crankcase Breather.....	79
Transmission Breather.....	79
Spark Plugs.....	79
Magneto.....	81
Starting and Lighting Equipment.....	85
Traction Clutch Adjustment.....	88
Belt Pulley Brake Adjustment.....	89
Differential Brake Adjustment.....	90
Power Take-off Clutch Adjustment.....	91
Repacking and Adjusting Front Wheel Bearings.....	92
Adjusting the Steering Mechanism.....	93
Tractor Storage.....	94
INSTRUCTIONS FOR OPERATING AND ADJUSTING LP-GAS EQUIPPED TRACTOR.....	97
SERVICE SUGGESTIONS.....	111
INDEX.....	119



Model DC-3 General Purpose Tractor



Model DC-3 General Purpose Tractor
(With Adjustable Front Axle)

Live Power Take-Off

Rotation.....	Clockwise
Normal Speed at Full Load.....	
Governed Engine Speed of 1200 RPM.....	540 RPM
Spline Size.....	1 ³ / ₈ Inches Standard
Adapter Guard.....	Standard
PTO Shaft Guard- Eagle Hitch.....	Case Bracket and Guard for Eagle Hitch Tractor Only
Location on Tractor.....	Center Line of Tractor
Distance from Center of PTO Shaft to Top of Drawbar.....	15 15/16 Inches
Method of Engaging.....	PTO Clutch Hand Lever
Type Clutch.....	Oil Bath, Over Center, Multiple Disc Type

Tractor Belt Pulley

Diameter—12 ¹ / ₄ Inches.....	Face Width—7 ¹ / ₄ Inches
No Load Speed.....	948 RPM
Full Load Speed.....	818 RPM
Belt Speed.....	2620 Feet Per Minute Under Load
Ratio Engine Speed to Belt Pulley Speed.....	1.466 to 1
Resilient Type Pulley.....	Standard Equipment on DC-3 and DC-4 Tractors
Rigid Type Pulley.....	Standard Equipment on DC-4, D, DS, DO, DV Tractors

Approximate Capacities

	U. S.	Imperial
Engine Crankcase		
Without Oil Filter.....	Quarts..... 7	5-4/5
With Oil Filter.....	Quarts..... 8	6-7/10
Cooling System.....	Gallons..... 6-3/4	5-1/2
Gasoline Tank.....	Gallons..... 19	15-4/5
LPG Fuel Tank		
Measured by Water Capacity.....	Gallons..... 28	23-3/10

(LPG Fuel Tank Must Only Be Filled 80% Full or 22-2/5 U. S. Gallons)

ENGINE LUBRICATION

Crankcase Capacity

Without Oil Filter.....	7 Quarts
With Oil Filter.....	8 Quarts

OIL RECOMMENDATIONS

SAE 30 for Air Temperatures above $+70^{\circ}$ F.

SAE 20-W for Air Temperatures from $+70^{\circ}$ F. to $+32^{\circ}$ F.

SAE 10-W for Air Temperatures from $+32^{\circ}$ F. to -20° F.

SAE 5-W for Air Temperatures of -20° F. and below.

Checking Crankcase Oil Level

When gasoline or LP gas is being burned as a fuel, check the crankcase oil level before starting the tractor for the day's operation. The oil must be to the level of the upper plug, shown in Figure 4. If it is not, remove the crankcase filler cap, Figure 4, and add oil of the proper viscosity through the filler opening until a small amount of oil drains out of the upper plug. When replacing the filler cap, be sure the gasket is in place and in good condition.

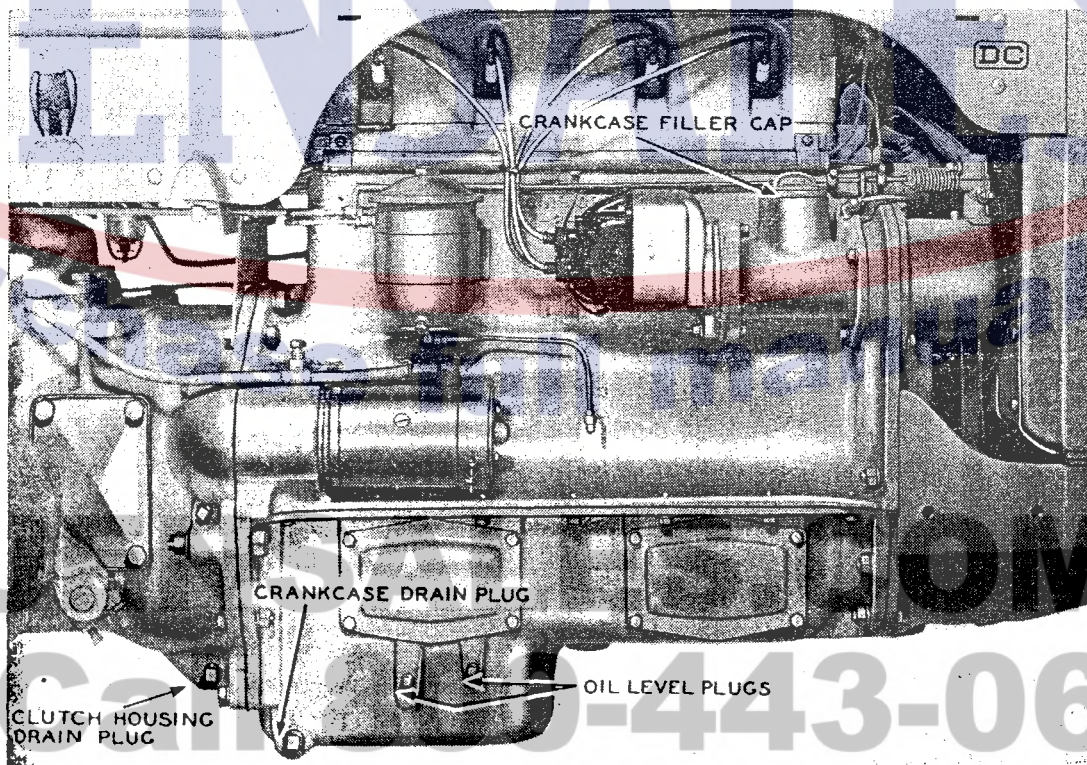


Figure 4.

On tractors equipped for burning low cost fuel, the crankcase lower level plug should be removed and the oil drained to this level every 10 hours of operation. New oil should then be added through the filler opening until the crankcase is filled to the level of the upper plug.

Figures 25 and 26 show the dual valve unit and its controls mounted on an Eagle Hitch Model DC-3 Tractor.

The outer hand control lever, Figure 26, operates the mounted cylinder and the inner lever operates the portable cylinder.

The mounted cylinder operates as a one-way cylinder. It raises under pressure and lowers by the combined weight of the hitch and latch-on implement.



Figure 25. Model DC-3 Tractor Equipped with Dual Valve Hydraulic Control

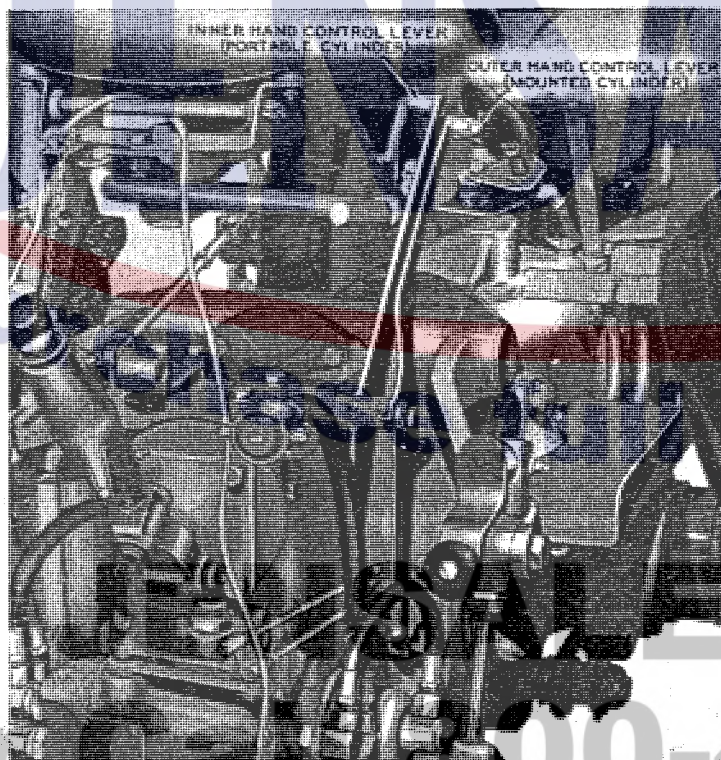


Figure 26.

The outer hand control lever is operated in the same manner as described under the heading "Eagle Hitch," Page 44.

When a portable cylinder is coupled to the hoses provided with the dual valve control unit, it operates as a two-way cylinder, both raising and lowering under pressure. The operating and coupling instructions given for the portable cylinder, under "Single Valve Control," Pages 40 through 42, will apply to the portable cylinder used with the dual valve unit.

NOTE: When a Model D Series Tractor is equipped with a dual valve hydraulic control but not an Eagle Hitch, BOTH CYLINDERS WILL OPERATE AS TWO-WAY CYLINDERS: EACH WILL RAISE AND LOWER UNDER PRESSURE. The operating and coupling instructions given for the portable cylinder single valve control, Pages 40 through 42, will then apply to both cylinders and hand control levers.

INDEX

	Page
Air Cleaner.....	71
Anti Freeze Solutions.....	70
Battery.....	85
Bearings, Front Wheel.....	92
Belt Pulley Work.....	53
Brake Adjustment, Belt Pulley.....	89
Brake Adjustment, Differential.....	90
Capacities.....	11, 17
Carburetor Adjustments.....	73
Clutch Adjustment, Power Take-off.....	91
Clutch Adjustment, Traction.....	88
Condensation, Crankcase.....	68
Controls and Instrument Guide.....	33
Cooling System.....	65
Cooling System, Cleaning.....	69
Crankcase Breather.....	79
Dilution, Crankcase.....	68
Drawbar.....	38
Eagle Hitch.....	44
Coupling Procedure.....	45
Latches, Draft Arm.....	48
Linkage Adjustments.....	47
Portable Cylinder Equipment.....	49
Speed Regulator Valve.....	47
Uncoupling Procedure.....	49
Engine Speeds.....	74
Fuels and Fuel Storage.....	54
Fuel Strainer.....	72
Generator.....	87
Governor and Engine Speed.....	74

INDEX

	Page
Hydraulic Control.....	40
Control Levers, Dual Valve.....	43
Control Lever, Single Valve.....	40
Coupling Instructions.....	41
Dual Valve.....	42
Oil Change.....	26
Oil Filter.....	28
Portable Cylinder Depth Control.....	42
Single Valve.....	40
Low Cost Fuel Equipped Tractors.....	59
LP Gas Tractor, Operating and Adjusting.....	97
Carburetion Adjustment.....	107
Filling the Fuel Tank.....	103
Fuel Filter.....	109
Starting Instructions.....	106, 108
Lubrication.....	15
Engine.....	22
Hydraulic Control.....	26
Lubricants, Recommended.....	17
Lubrication Points.....	18
Power Take-off.....	28
Pressure Fittings.....	18
Rear Axle Drive Housing, Model DS Tractor.....	26
Transmission.....	24
Magneto.....	81
Maintenance.....	63
Oil Filter, Crankcase.....	23
Oil Pressure.....	34, 77
Oil Pump.....	77
Oil Pump Floating Screen.....	78
Oil Recommendations.....	17
Operating Instructions.....	29
Power Take-off.....	51
Power Take-off Guards and Shields.....	52
Preparing Tractor for Operation.....	31
Pre-starting Information.....	31
Run-in Procedure.....	32

INDEX

	Page
Seat Adjustment.....	32
Serial Number, Tractor.....	6
Service Suggestions.....	111
Spark Plugs.....	79
Specifications, General.....	7
Starting and Lighting Equipment.....	85
Starting Instructions, Tractor.....	33
Starting Motor.....	86
Steering Mechanism Adjustment.....	93
Steering the Tractor.....	39
Stopping the Tractor.....	36
Storage, Tractor.....	94
Table of Contents.....	2
Temperature Control, Engine.....	66
Temperature, Operating.....	65
Thermostat.....	65
Thermostat Removal.....	68
Timing Instructions, Magneto.....	81
Tire Pressures.....	14, 36
Toe-in, Front Wheel.....	13
Traction, Rear Wheel.....	36
Transmission.....	24
Transmission Breather.....	79
Travel Speeds, Tractor.....	13
Valve Clearance.....	76
Vee Belt, Fan and Water Pump.....	69
Weights, Approximate Tractor.....	14
Weights, Rear Wheel.....	37
Wheel Spacing.....	54
Wiring Diagram.....	116