440 & 441
Wheel Tractor

Operators Manual

9-9024

Reprinted

CASE

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THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH.

M171B

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.

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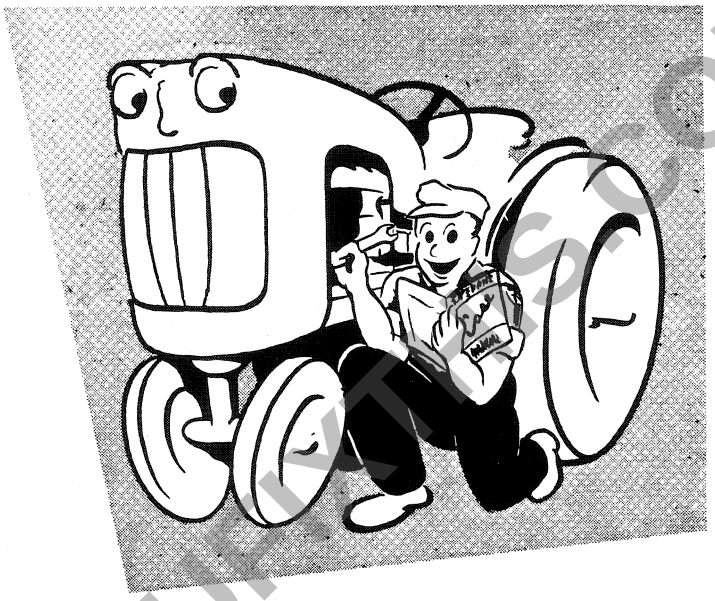
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SERVICE SUGGESTIONS



The best way to locate and correct difficulties is to STOP AND THINK BEFORE YOU ACT! Keep in mind some of the simple basic requirements for a spark ignition engine to start and operate efficiently.

1. Power at the starting motor, and strong ignition spark.
2. A supply of good, clean fuel, free of water contamination.
3. Air tight fuel lines and connections.
4. A full supply of clean air through the air filter.
5. A good grade of free flowing engine lubricating oil.

Systematically check the obvious things first, such as a closed fuel tank shut-off valve, water in the fuel, wet or dirty spark plugs, loose or broken distributor and ignition wires.

Listed on the following pages are some simple checks that can be made to determine the cause of minor difficulties. If these suggestions do not correct the difficulty, **call your Authorized Case Dealer.**

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GENERAL SPECIFICATIONS

Engine (Gasoline)

GENERAL

Type	Four Cylinder; Overhead Valve
Firing Order	1 – 3 – 4 – 2
Cylinder Bore	3⅜"
Stroke	4⅛"
Piston Displacement	148 cubic inches
Compression Ratio	7.1 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	1750 R.P.M.
No Load Engine Speed	1925 R.P.M.
Engine Idling Speed	500 R.P.M.
Governor Type	Case Sensitive Flyweight
Engine Speed Control	Combination Friction Type Hand Control and Foot Control

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 1750 R.P.M.)
Oil Pump	Gear Type with Floating Intake
Oil Filter	Full Flow—Replaceable cartridge element

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

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CONSTANT-RUNNING POWER TAKE-OFF (OPTIONAL)

(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., 11 plate

BELT PULLEY ATTACHMENT (EXTRA)

Pulley Diameter	10¼"	Face Width	6"
Location			Right Side of Tractor
Full-Load Speed			1190 R.P.M. at 1750 Engine R.P.M.
Belt Speed Per Min., Full Load			3,193 Ft. Per Min.

EAGLE HITCH AND HYDRAULIC SYSTEM (OPTIONAL)

Type System	Single acting with Floating Piston
Hydraulic Pump	Continuous Running
Relief Valve Pressure	1300-1500 P.S.I.
Control	Hand operated (with Adjustable Limit Stops)
Filter	Edge-Wound Paper Element (replaceable)
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 441)	(Gallons)	7	5.85
(Change)	(Gallons)	6	5.01
Transmission Case (Model 440)	(Quarts)	17	14.20

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PRE-STARTING CHECK LIST

Before starting your new Case Tractor for the first time and before each operating period thereafter, check the following:

1. See that all lubrication fittings are serviced as directed on Pages 15, 16 and 17.

2. See that oil level of crankcase, transmission and torque tube housing are filled to levels indicated on Pages 20, 23, and 25 respectively.

3. Be sure air cleaner oil cup is clean and filled exactly to level mark on the cup with clean, free flowing oil. Refer to "Preventive Maintenance" Section.

4. The cooling system of your Case tractor has been winterized before leaving the factory with an ethylene glycol base (permanent type) anti-freeze. This should protect the cooling system to -30° F. Check the coolant level and if there is danger of freezing weather, test the strength of the anti-freeze solution. If, for any reason, this solution is ever drained, use only clean soft water or a refill of (permanent type) anti-freeze.

5. See that the tractor fuel tank is filled with clean, water free fuel that meets requirements listed on Page 91. Always wipe fuel tank cap clean before removing it.

6. Visually check fuel system for leakage. Check the engine for coolant or crankcase oil leakage.

7. Check that the fan belt is just tight enough to eliminate slippage. (Belt can be depressed ¾ inch with thumb pressure at a point midway between the fan pulley and the crankshaft pulley.)

8. Drain any accumulated water or dirt from the fuel tank bowl. (See Fig. 23)

9. If your tractor is equipped with a power take-off, make sure the power take-off guard is installed. Refer to Page 65.

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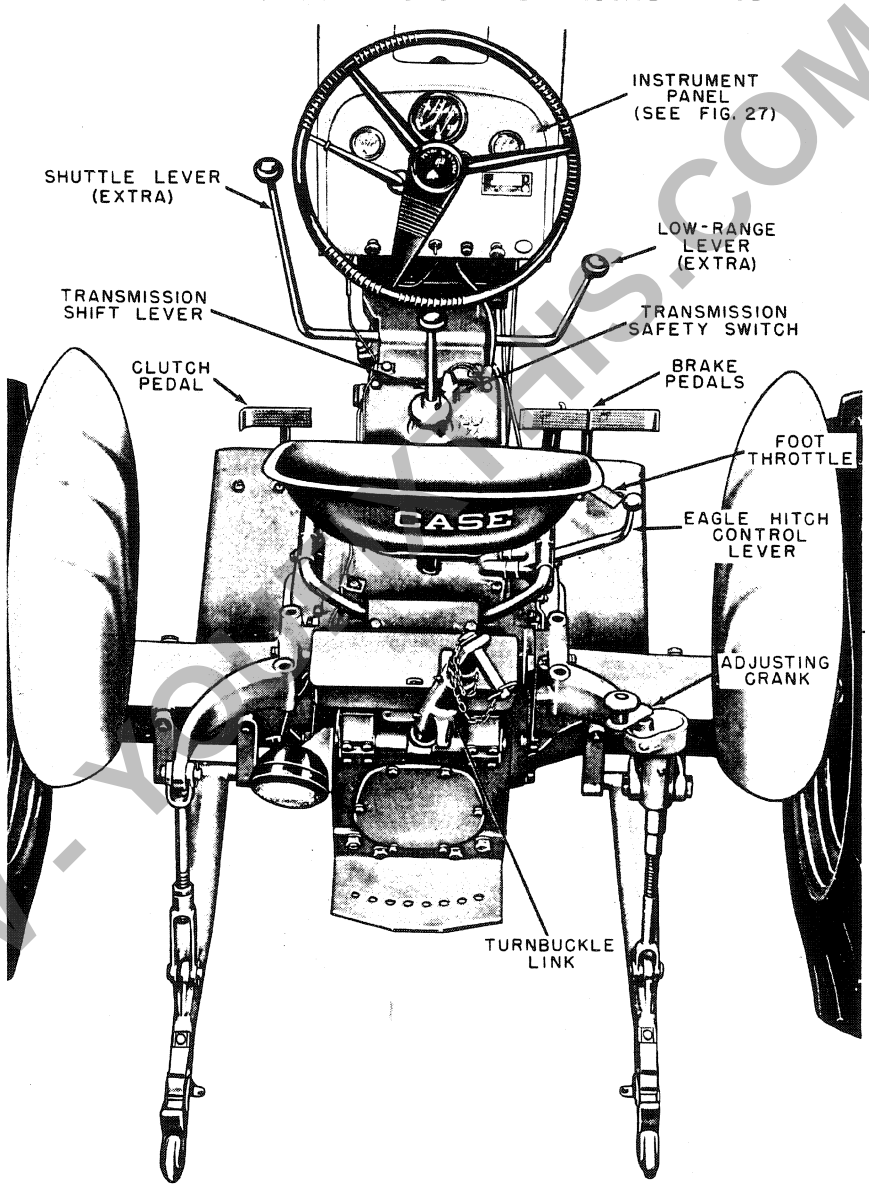


Fig. 25. Tractor Operating Controls (Seat Removed)

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EAGLE HITCH (EXTRA)

GENERAL DESCRIPTION

The Case Eagle Hitch is a three-point, quick coupling hitch for rear mounted implements. The hydraulic system is regulated by a sensitive control valve. The control lever is conveniently located at the operator's right, for quick, positive control of the draft arms.

The right-hand lift link contains the draft arm adjusting screw. This adjustment allows attached implements, such as plows, to be leveled laterally, while in the field.

The draft arm latches provides the operator with a simple, rugged means of coupling to the implement draft pins. The latches are released by pulling the latch cords.

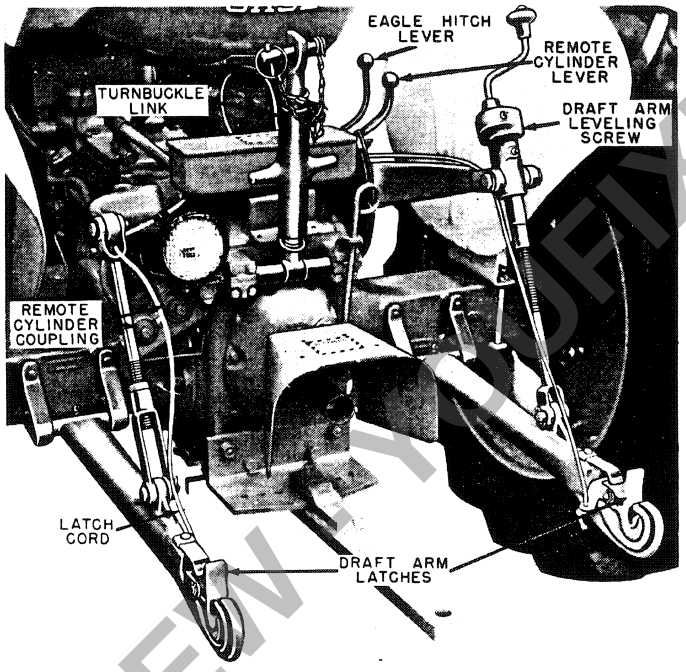


Fig. 36. Eagle Hitch — Rear View

The turnbuckle link provides the third connection of the three point system. This link is composed of a turnbuckle, and two eye links, (with right and left threads). By adjusting the length of this link, implements can be leveled or tilted for correction operation, depth or penetration.

The turnbuckle spacers provide a means of shifting the turnbuckle to compensate for implements having an "off center" mast. Shifting position is easily accomplished by removing the pivot pins and re-positioning the front eye and spacers.

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ENGINE WILL NOT START

Cause	Remedy
Engine Does not Turn Over	Check battery charge. Clean battery connections and tighten. Check that solenoid is grounded to mounting plate.
No Spark	Check ignition switch. If no spark is present at spark plug wires when engine is turned over, have your distributor serviced through your Authorized Case Dealer. If spark plugs are wet, dirty, or broken, clean or replace plugs, Page 100.
Weak Spark	Ignition points, coil, or condenser need replacing. Have your distributor serviced through your Authorized Case Dealer. Spark plug gaps improperly set. Regap and clean plugs. Replace spark plugs if necessary. Check spark plug wires and replace if necessary.
No Fuel in Tank	"Yes, it's possible!" Fill tank.
Valve at Fuel Strainer Closed	"Yes, this can happen too!" Open valve.
Clogged Fuel Line or Strainer	Remove sediment bowl and clean bowl and line.
Improper Fuel Mixture	Check setting of carburetor load adjustment and idling mixture adjustment, Page 93.
Excessive Choking	Turn engine over a few times with choke valve open and then wait a few minutes. It may be necessary to remove plugs and dry them. If the oil has been washed from the cylinder walls, it may be necessary to squirt some oil through the spark plug holes.
Water in Fuel System	Drain fuel tank and carburetor, clean fuel sediment bowl and strainer screen.

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IMPORTANT CHECKS DURING OPERATION

CHECK EVERY DAY

1. Daily lubrication points.
2. Air cleaner oil cup – (Drain, clean and refill every 5 to 60 hours, depending on dust conditions.)
3. Crankcase oil level – (Check dipstick reading.)
4. Radiator coolant level.
5. Temperature gage reading.
6. Oil pressure gage reading.
7. Battery charging – (Generator signal light.)
8. Crankcase and transmissions breather during extremely dusty conditions.
9. Brake pedal free travel. Clutch pedal free travel.

CHECK EVERY 60 HOURS

1. 60 hour lubrication points.
2. Transmission oil level.
3. Battery – (Take hydrometer reading and check liquid level.)
4. Air cleaner oil cup – (Drain, clean and refill every 5 to 60 hours, depending on dust conditions.)
5. Fan Vee belt tension.
6. Torque Tube Hydraulic oil level.
7. Tire pressures.
8. Check air cleaner intake pipe for dirt accumulation.
9. Remove and clean crankcase breather, also breather on power steering pump (if used).
10. Distributor and Generator – 2-3 drops of light oil.

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