



Cockshutt Operator's Manual

50 Gas & Diesel

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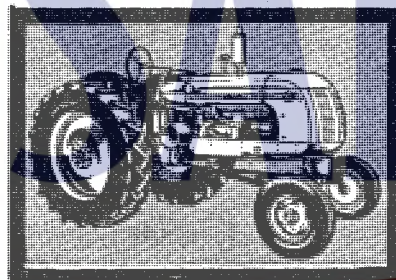
Operator's Manual

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OPERATING INSTRUCTIONS

**"50"
TRACTOR**

Gasoline and Diesel



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COCKSHUTT

FARM EQUIPMENT LTD.

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SPECIFICATIONS

TRACTOR SERIAL NUMBER — Stamped on left side of main frame.

ENGINE NUMBER — Stamped on left side of cylinder block.

Number of cylinders — 6; Bore and stroke — $3\frac{3}{4}$ " x $4\frac{1}{8}$ "; Displacement — 273 cubic inches.

Spark plugs — (Gasoline Model only) — Champion J-11 (Interchangeable with J-5).

Injection System — (Diesel Model only) —

1. American Bosch type PSBY Fuel Injection Pump of the constant-stroke, distributing plunger, sleeve control type, the plunger being actuated by a cam and tappet arrangement.
2. American Bosch integral governor of the mechanical-centrifugal type.
3. American Bosch pintle type nozzles and nozzle holders.

Main and connecting rod bearings —

(Gasoline Model only) — Steel backed, babbit lined, Precision type.

(Diesel Model only) — Steel backed, copper-lead lined, Precision type.

ENGINE

Engine lubrication — Pressure.

Firing order — 1-5-3-6-2-4.

Ignition — (Gasoline Model only) — Battery through high tension coil and distributor.

(Diesel Model only) — Full diesel type high compression ignition.

Engine speed — 1650 R.P.M. (approximate) under full load; 1850 R.P.M. no load.

Power take-off $1\frac{3}{8}$ " diameter — 6 spline shaft — speed; 530 R.P.M. at 1650 R.P.M. engine speed.

Fuel — (Gasoline Model only) — should be a minimum of 72 octane rating. (Diesel Model only) — refer to "fuel oil" specifications on page 17.

Engine timing	(Diesel) —	PSBY pump	25°	B.T.D.C.
		PSB (B or C Series)	28°	B.T.D.C.
		APE pump	32°	B.T.D.C.

Nozzle opening pressure — 2000 P.S.I.

Engine timing (Gasoline Model) — T.D.C.

CLUTCH AND BELT PULLEY

Clutch — (Gasoline Model only) single plate, dry disc (spring loaded) 11"
(Diesel Model only) — single plate, dry disc (spring loaded, using torsional damper springs) 11"

Pulley speed — (Engine speed at 1650 R.P.M.) 1000 R.P.M.

Belt speed — (12" pulley); (Engine Speed at 1650 R.P.M.) 3132 F.P.M.

Pulley diameter 12"

Pulley face $8\frac{1}{2}$ "

TRANSMISSION

6-Speed forward, 2 reverse; sliding gear type.

NOTE: Speeds based on 14-34 pneumatic tires; Engine speed — 1650 R.P.M. except as noted.

		M.P.H.
Forward	1st	$15\frac{1}{8}$
	2nd	$23\frac{3}{4}$
	3rd	$35\frac{3}{8}$
	4th	$41\frac{1}{2}$
	5th	$61\frac{1}{4}$
	6th (1650 R.P.M.)	$101\frac{1}{2}$
	(1850 R.P.M.)	$115\frac{3}{8}$
Reverse	1st	$21\frac{1}{8}$
	2nd	5

INSTRUMENT PANEL AND CONTROLS

(Gasoline Models)

PLATE No. C-109

CHOKE LEVER — as indicated by arrow (8).

This control near the lower center of the instrument panel is held in the open position by spring pressure and should be used only when starting. The spring loaded feature prevents undue choking and unnecessary engine wear and excessive fuel consumption.

IGNITION SWITCH — as indicated by arrow (9).

Duplicate keys are provided and should be removed to prevent loss, theft or tampering with the tractor by unauthorized persons. Turn to the right when ready to start the engine — to the left or up-right position to stop the engine.

LIGHT SWITCH — as indicated by arrow (10).

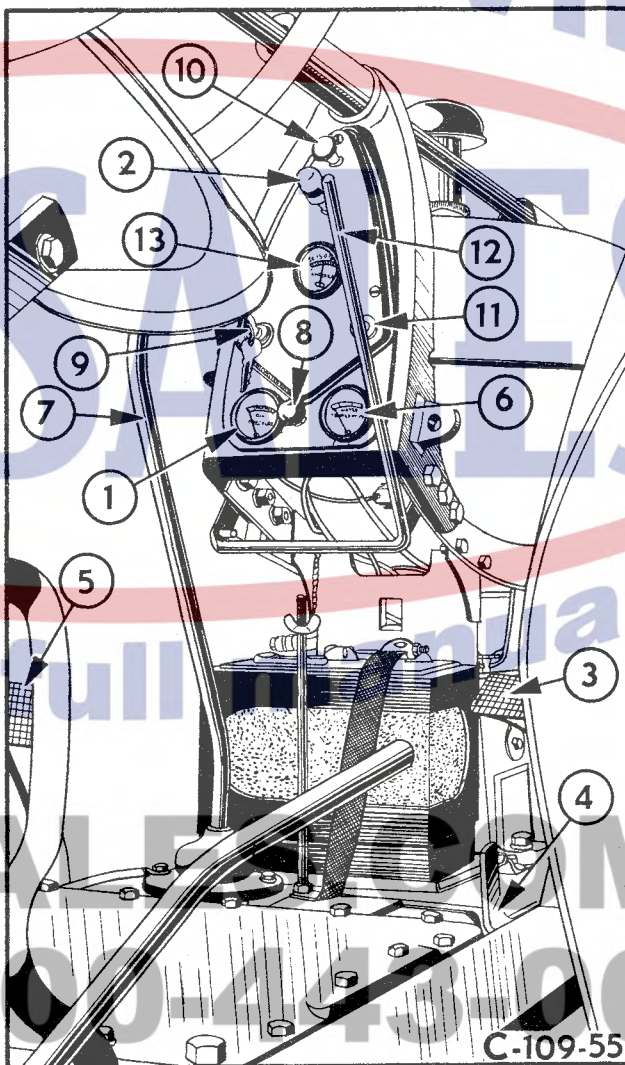
STARTER PUSH BUTTON — as indicated by arrow (11).

This is pushed to start the engine. **CAUTION** — ALWAYS have gear shift in neutral position when starting.

ENGINE SPEED CONTROL LEVER — as indicated by arrow (12).

Through the governor this lever, when adjusted to the desired speed, keeps the engine speed uniform under varying load conditions.

AMMETER — as indicated by arrow (13).



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INSTRUMENT PANEL AND CONTROLS

(Diesel Models)

PLATE No. C-163

STOP CONTROL AND THROTTLE LEVER — as indicated by arrow (8).

This control lever when moved to the top position of its travel moves the fuel control rack to the closed position to stop the engine. On the lower portion of the arc this lever, through the governor linkage, keeps the engine running at the desired speed under varying load conditions.

STARTER PUSH BUTTON — as indicated by arrow (9).

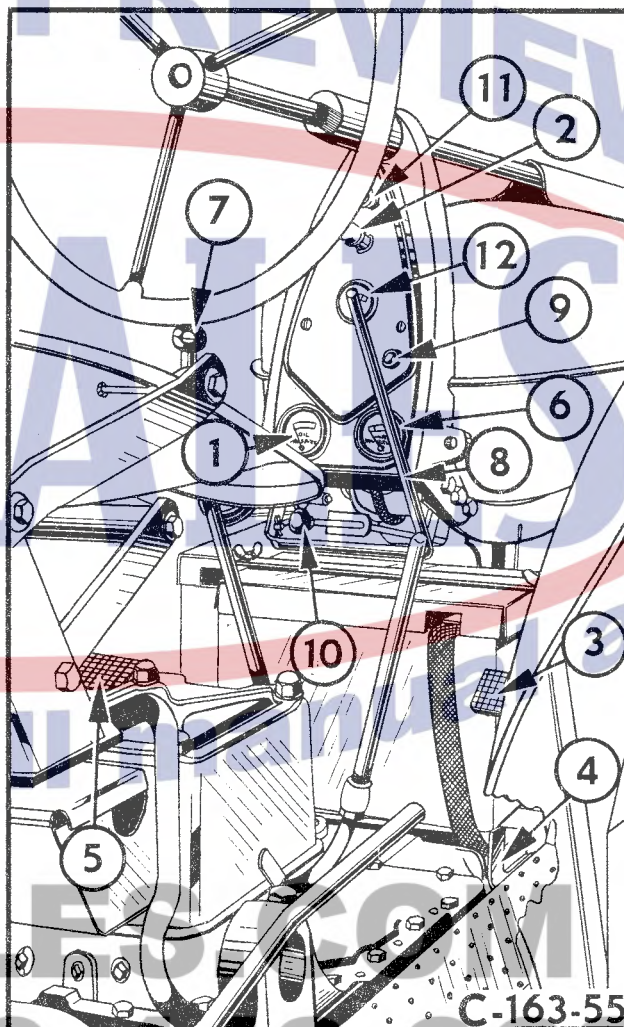
A slight pressure on this button immediately starts the engine turning over. **CAUTION** — ALWAYS have gear shift in neutral position before touching the starter button as engine may start ANY time the crankshaft is turned over.

HEATER SWITCH CONTROL — as indicated by arrow (10).

See "STARTING and OPERATING DIESEL TRACTOR", Page 21.

LIGHT SWITCH — as indicated by arrow (11).

AMMETER — as indicated by arrow (12).



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