

JOHN DEERE 720 SERIES SPARK IGNITION TRACTORS



SERVICE MANUAL JOHN DEERE 720 SERIES SPARK IGNITION TRACTORS

SM2025 (01SEP58) English

JOHN DEERE TRACTOR WORKS
SM2025 (01SEP58)

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ENGLISH



SERVICE MANUAL FOR JOHN DEERE DEALERS

720
SERIES

**SPARK
IGNITION**

TRACTORS

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Section 10

DESCRIPTION, OPERATION, AND SPECIFICATIONS

Group 5

DESCRIPTION

The John Deere "720" Series Tractor is a general-purpose tractor with sufficient power to pull five 14-inch plow bottoms or the equivalent under most soil conditions. The tractor has six forward speeds and one reverse speed.

The features of the tractor are described briefly in the paragraphs which follow. Full descriptions of each of the components or assemblies are contained in the various Sections throughout this Manual.

Serial Numbers

Each tractor bears a serial number located on the right side of the main case just in front of the pulley (Figure 10-5-1).

The distributor and the Powr-Trol valve hous-

ing also bear serial numbers.

Engine

The tractor is powered by a two-cylinder, cast-in-block, valve-in-head engine with a displacement of 360.5 cubic inches. Rotation is counterclockwise when viewed from the flywheel side.

The engine has aluminum alloy, sleeve-type main bearings and replaceable, precision-type connecting rod bearings. All bearings and other parts of the engine are pressure lubricated by a force-feed pressure system with a full flow oil filter. The system includes a replaceable filter element. The crankcase is ventilated by a pump located on the rear end of the fan shaft. Engine speeds are controlled by a flyweight type governor driven by the camshaft.

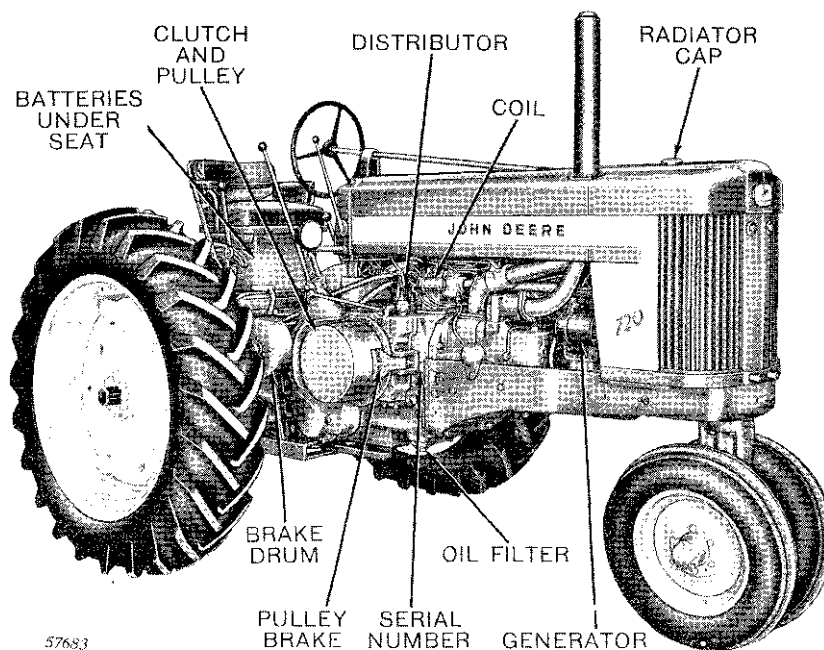


Figure 10-5-1—John Deere "720" Series General-Purpose Tractor—Pulley Side

Fuel System

Gasoline, LP-Gas and All-Fuel tractors are available.

Tractors are equipped with a dual-induction carbureting system using a gravity-fed, natural-draft, double-barrel carburetor and individually ported valves. The All-Fuel tractor has two fuel tanks—a large tank for fuel and a small auxiliary tank for gasoline which is used when starting the All-Fuel engine.

An oil-wash air cleaner assures clean air for the engine.

Ignition

The tractor has a battery-distributor type ignition system with automatic spark advance. A 12-volt battery, generator, starter and lights are standard equipment. The lights consist of two front lights which can be made bright or dim, and a rear combination white and red warning light.

Cooling System

The engine is water cooled. The cooling system includes a centrifugal-type water pump, thermostat, and a by-pass system for quick warm-up.

Clutch

A dry disk, hand-operated clutch is enclosed within the belt pulley. The clutch contains six 10-inch dry disks. The belt pulley is engaged by the clutch lever and rotates at crankshaft speed whenever the clutch is engaged. When the clutch is disengaged, an adjustable pulley brake prevents pulley rotation.

Transmission and Differential

The transmission lies crosswise in the main case. Shifting through the entire range of six forward speeds and one reverse speed is accomplished by one shift lever.

The differential is of the conventional type with a ring gear and spider driven directly by a spur gear in the transmission.

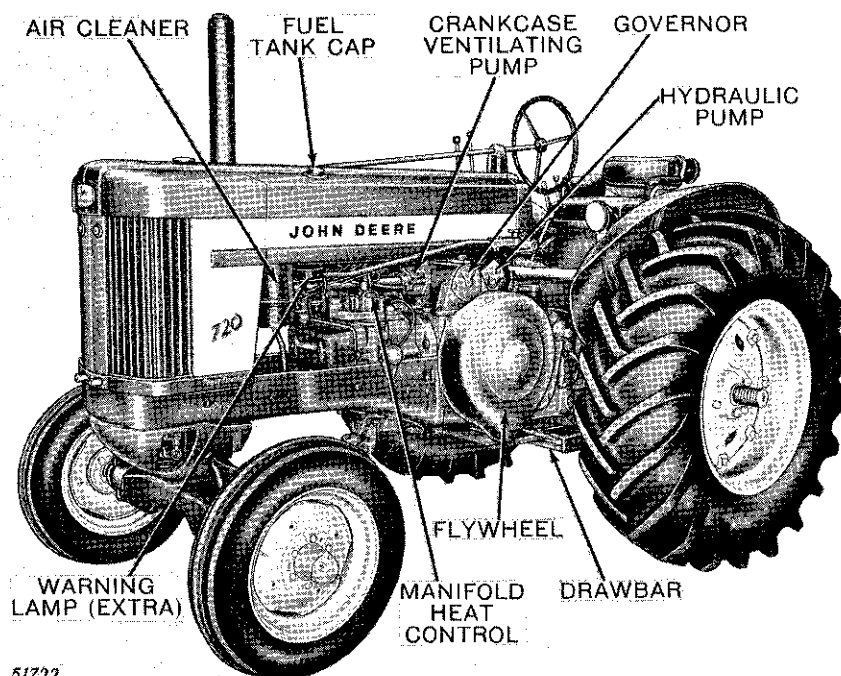


Figure 10-5-2—John Deere "720" Series Standard Tractor—Flywheel Side

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