

Figure 10-5-2—Serial Number Locations

ENGINE

Each tractor is powered by a two-cylinder, cast-in-block, valve-in-head engine with a displacement of 113.6 cubic inches. Crankshaft rotation is clockwise when viewed from the front.

The engine has replaceable precision-type main and connecting rod bearing inserts. All bearings and other parts of the engine are lubricated by a force-feed and splash-type system with a by-pass type oil filter. The system includes a replaceable filter element. The crankcase is ventilated by means of a breather tube in the rocker arm cover. Engine speeds are controlled by a fly-weight-type governor driven by the camshaft.

FUEL SYSTEM

All styles use a gravity fed, up-draft carburetor, with adjustable idle and load jets.

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

IGNITION

Each style has the same battery-distributor type ignition system with automatic spark advance. A 6-volt battery, generator, and starter are standard equipment.

Lights are optional and consist of two front lights which can be made bright or dim, a rear combination white and red warning light, a dash light, and auxiliary light socket.

COOLING SYSTEM

Each tractor is equipped with a pressure cooling system consisting of a water pump, thermostat, and fixed by-pass. This insures a quick and thorough warm-up.

CLUTCH

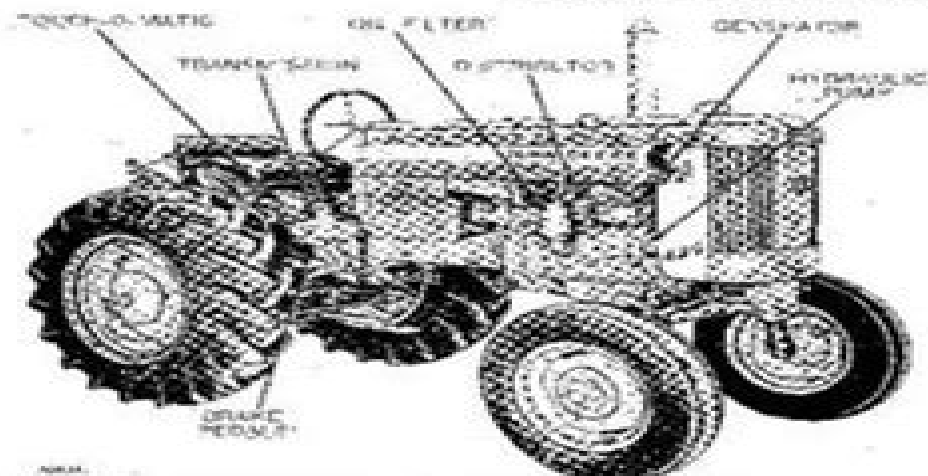
There are two types of clutches on the "420" Series Tractors.

One is the single dry-disk, foot-operated clutch, enclosed in the bell housing portion of the center frame. This is used on all tractors not equipped with constant running power take-off.

The type used on tractors equipped with the constant running power take-off is a dual dry-disk, foot-operated clutch, also enclosed in the bell housing portion of the center frame. The tractor and power shaft are driven by individual clutches either together or separately. Adjustment of both types of clutches are made externally.

TRANSMISSION

There are two types of transmissions. One is a four speed and the other is a five speed. Both are

Figure 10-5-3—Parts and Assemblies Visible from Right Side of Tractor
(Series "420" Standard Illustrated)

John Deere 420 Tractor Repair Manual

Marcel A. Müller



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