

John Deere

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MODEL:

420 Crawler

S/n 100,001 & Up

MANUAL PREVIEW

JENSALES

OPERATOR'S
MANUAL

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420 Crawler
(Serial No. 100001-UP)

MANUAL PREVIEW

OPERATORS MANUAL

420 Crawler
(Serial No. 100001-UP)

OMT31756 G6 English

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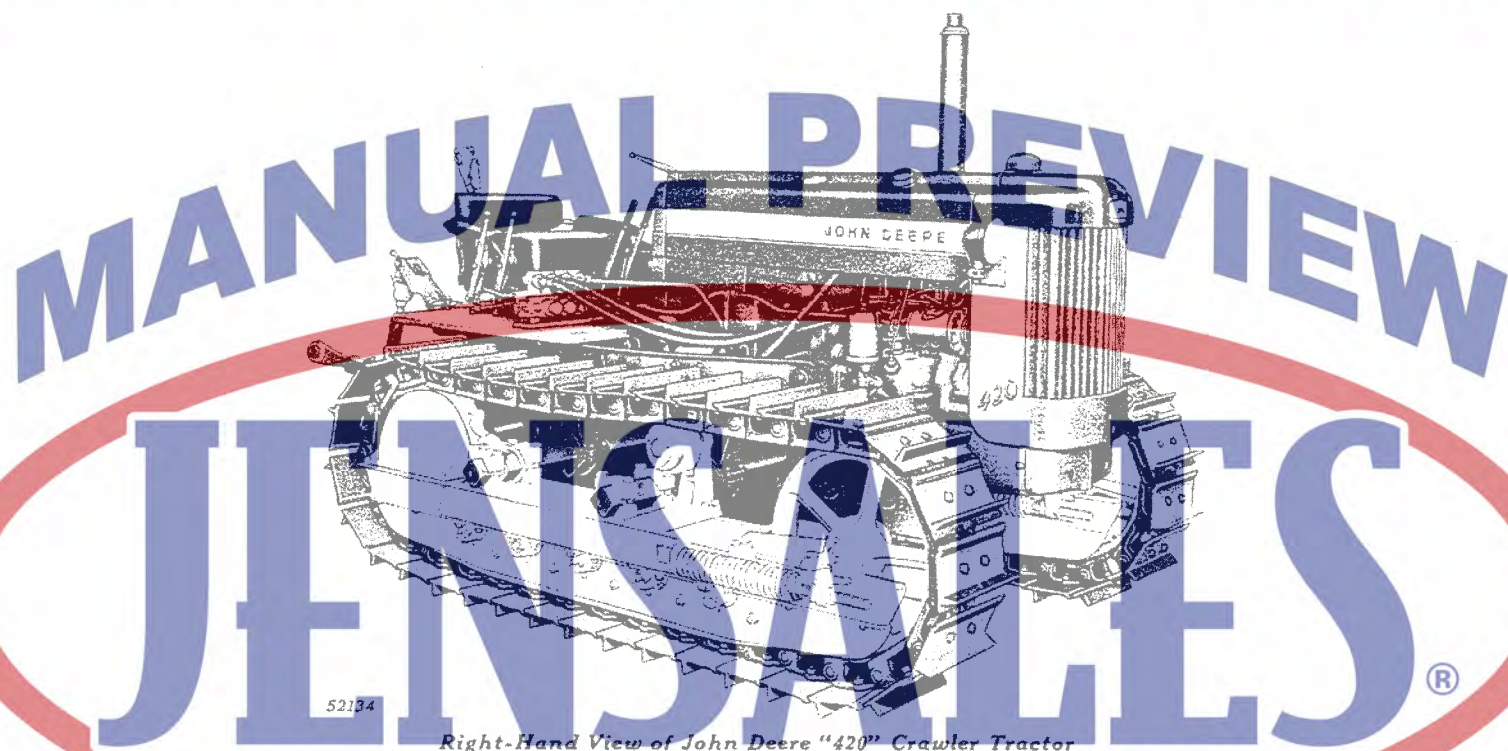
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SPECIFICATIONS

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Rock Guard—Regular on five-roller frame; optional on four-roller frame.

Length of Track on Ground—
Four-roller, 56 inches; five-roller, 66-3/8 inches.

Area of Ground Contact, four-roller—

10-Inch Shoe..... 1120 sq. in.
12-Inch Shoe..... 1344 sq. in.
14-Inch Shoe..... 1568 sq. in.

Area of Ground Contact, Five-Roller—

10-Inch Shoe..... 1328 sq. in.
12-Inch Shoe..... 1593 sq. in.
14-Inch Shoe..... 1868 sq. in.

Ground Pressure, Operating Weight, 46-Inch Gauge, 10-Inch Shoes—4-Roller, 4.3 psi; 5-roller, 4.0 psi.

DIMENSIONS:

Over-All Length..... 102 in.

Over-All Width.. 56 in. minimum
(To ends of regular square cross-bars.)
60 in. maximum
(To edges of 14-inch shoes in 46-tread.)

Over-All Height (To top of muffler.)..... 69 in.

Height (To top of grille)..... 51-7/8 in.

Clearance..... 12 in.

Turning Radius... 4-roller, 72 in.
5-roller, 78 in.

POWER SHAFT (Regular):

Extra equipment. Revolutions per minute, 560.

POWER SHAFT (Auxiliary):

Revolutions per minute, 1850.
(Engine speed.)

BELT PULLEY:

Extra equipment. Diameter, 9 inches; face, 6 inches; revolutions per minute, 1270; belt speed (feet per minute), 3000.

DRAWBAR:

Swinging; conforms to ASAE-SAE standard PTO position for wheel tractors. Three-point hitch for integral equipment, optional.

SHIPPING WEIGHT:

4,150 (approx.) 4-roller.
4,700 (approx.) 5-roller.

STANDARD EQUIPMENT:

Oil pressure and water temperature gauges; distributor-type ignition with ignition switch, fuel and oil filters, air cleaner, electric starter, battery and generator, coil-spring cushioned adjustable seat, cushioned adjustable back rest, swinging drawbar, fenders, sod pan, rock guards (5-roller). Provision for continuous-running ASAE-SAE standard power take-off, also a high speed drive by means of a splined coupling located inside the transmission.

EXTRA EQUIPMENT:

Belt pulley, electric lighting with implement warning light plug-in socket and instrument panel light, speed-hour meter, cigarette lighter, key ignition, front bumper, grille guard, heavy-duty bottom plate, rockguard (4-roller), sprocket shield, remote hydraulic system, orchard muffler, special exhaust silencer, ASAE-SAE standard power shaft stub shaft, sprocket shields, rock guards (4-roller), seat side cushions, extra length front crossbar, five-speed transmission, and 3-point hitch.

(Specifications and design subject to change without notice.)

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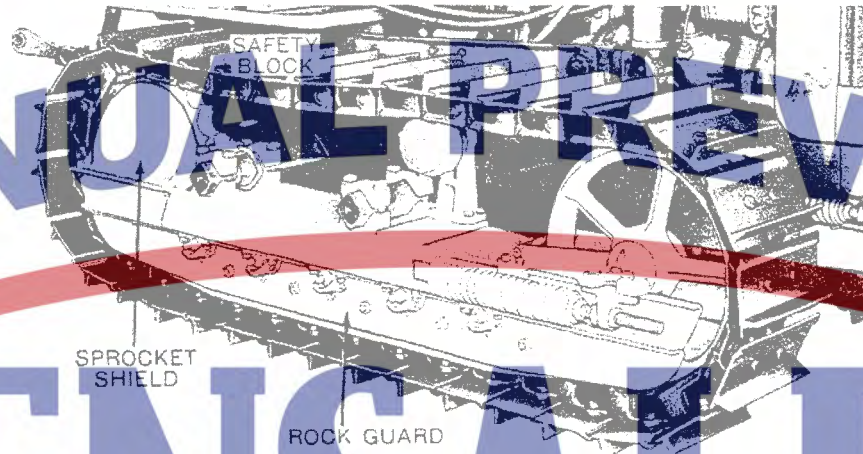
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OPERATION

Track Equipment

TRACK EQUIPMENT



52125

Five-Roller Tractor with Rock Guard and Sprocket Shield

ROCK GUARDS.

Heavy-duty rock guards minimize the quantity of foreign material which can enter the track and roller assembly.

Rock guards are regular equipment on "420" Crawler Tractors with five-roller track assemblies. On "420" Crawler Tractors with four-roller track assemblies, rock guards are optional equipment.

SPROCKET SHIELDS.

To provide additional protection against large rocks and trash entering track system, sprocket shields may be installed on tractors with five-roller track assemblies. Tractors with four-roller track assemblies

must be ordered equipped with sprocket shields from factory.

SAFETY BLOCKS.

The "420" Crawler is equipped with drive sprocket safety blocks. When trash, mud, snow, or other obstructions build up between tracks and sprockets, the tracks tighten. As the tracks tighten, the entire track and roller frames are moved to the rear so that the safety blocks contact the drive sprockets. Pressure of the sprockets against the safety blocks stops the tractor, preventing damage to tracks, sprockets, and drive parts. When tractor is stopped in this manner, tracks must be cleaned of obstruction before resuming operation in order to prevent damage to tractor.

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SERVICE

Track System

(14) Reset safety blocks and tighten hex. attaching nuts evenly and securely.

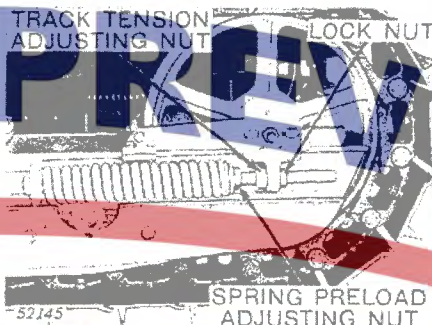
(15) Install track covers on track carrier assemblies.

(16) Install tracks and adjust track tension as instructed below.

Track Tension.

Track tension is adjusted by means of idler tension bolts on each side of each idler. Each bolt has an adjusting nut and lock nut. To tighten tracks, turn adjusting nut counter-clockwise (to your left as you face toward the rear of the tractor). To loosen tracks, turn adjusting nut clockwise. After making the adjustment, tighten lock nut. Adjust all four tension bolts equally.

When measuring track sag on five-roller tractor, pin and bushing must be lined up over center of support idler. Adjust track sag so there is 7/8- to 1-1/8-inch sag in center of track between sprocket and support idler. See illustration below. Adjust



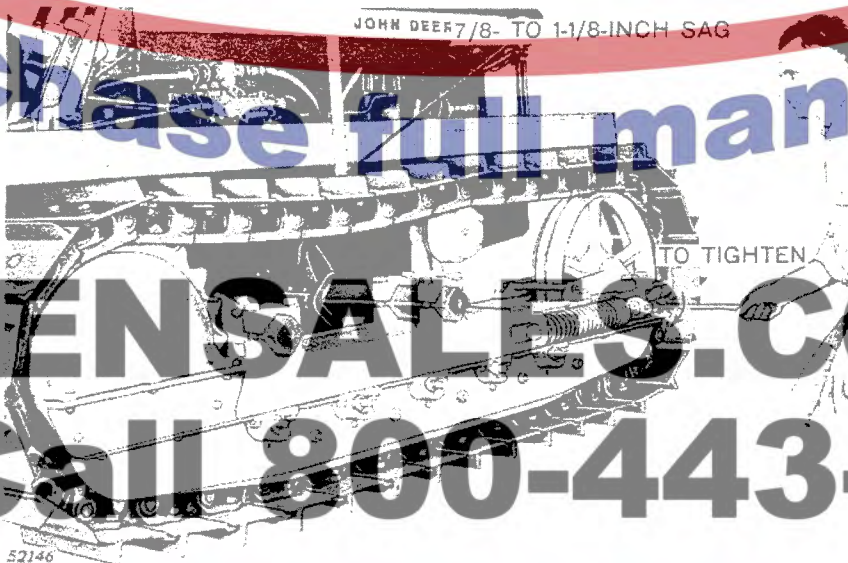
Tension Bolt

four-roller tracks so there is 1-1/2-inch sag measured at center of track.

NOTE: After adjusting for proper tension, as described above, check alignment and, if necessary, adjust according to information on following page.

When operating tractor in conditions where extreme soil packing occurs in track system, the track tension should be loosened sufficiently to prevent tension springs from continuously becoming solidly compressed during operation.

JOHN DEER 7/8- TO 1-1/8-INCH SAG



Five-Roller Track Tension Adjustment

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