

Fig. 42—Exploded view of the front idler assembly used on 440C and 440ICD tractors.

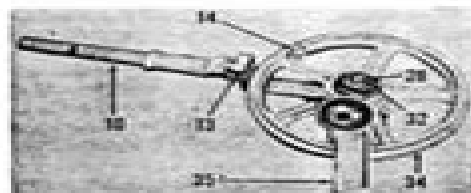


Fig. 43—View of the 440C and 440ICD front idler assembly partially disassembled. Note the hydraulic tension adjuster. Refer to Fig. 42 for legend.

CAUTION: Do not disturb the spring pre-load setting unless necessary. If spring pre-load setting has been disturbed, it must be reset as shown in Fig. 44.

On models serial numbers 440,501 to 440,532, spring free length is 17½ inches and the original setting was 14½ inches. If track jumping occurs with this pre-load setting, reset the spring pre-load of the 17½-inch spring to 14½ inches.

On models serial number 440,533 and up, the spring free length has been increased to 18 inches. On these models, the spring is pre-loaded to 14½ inches.

Replacement springs with the 18 inch free length are identified by block point on end coil.

Tighten lock nut and make sure in three places after spring pre-load dimension has been set.

Reassemble the front idler as follows: Refer to Fig. 42 and install idler shaft (32) in front idler (34). Install the original shims (31) and the thrust plates (30) and torque the socket head screws (29) to 22-47 Ft.-Lbs. Mount a dial indicator in a manner similar to that shown in Fig. 38 and measure the shaft end play which should be 0.004-0.010. Add or subtract shims (31—Fig. 42) as necessary to obtain the 0.004-0.010 shaft end play and keep both shim packs as near equal as possible. Install oil seals (28) in brackets and place right hand bracket (35) over end of idler shaft which has the grease fitting hole. Slide right hand bracket (35) on shaft (32) until set screw hole in bracket and detent hole in shaft align, then install set screw (19) and tighten set screw and jam nut securely.

Install left hand bracket (25) on idler shaft, then install the nuts (23)

and lock washers on ends of idler shaft and torque same to 147-152 Ft.-Lbs. **NOTE:** Tightening of nuts can be facilitated if it is delayed until the front idler assembly is installed on track carrier. Install the crosshead (13) and the shims (14) on brackets. Install adjusting screw (12), jam nut (11) and adjusting tube (10) to crosshead and slide entire front idler assembly on track carrier frame. Slide front idler assembly through its full range of travel and add or subtract shims (26) from between brackets and guides (27) until assembly will slide freely with no tight spots. Torque the guide retaining cap screws to 180-190 Ft.-Lbs.

Place tension spring assembly on track rear carrier with rear (bolt head) of screw against the rear cross member attaching bracket and slide the front idler assembly rearward until front of tension spring assembly is held in position by the adjusting tube. Install track as outlined in paragraph 11, then adjust track tension and alignment as outlined in paragraphs 3 and 5. Install the spring cover (3).

NOTE: It is not necessary to disconnect track to service the idler tension spring, adjusting tube or adjusting screw. To service any of the above parts, first block front idler in its forward position by using a wooden block between upper idler support and front idler crosshead as shown in Fig. 45. Remove the spring cover. Turn the jam nut and adjusting tube forward on adjusting screw until the spring assembly is free, then lift same from track carrier.

Specifications

22. Dimensional specifications of the shafts and bushings used in track rollers and the front idler are given below. Use these specifications as a guide for renewing parts.

Models MC-60C-620C-630C

Idler and roller shaft

O.D. 1.991-1.992

Idler and roller bushing

I. D. 1.994-1.995

Repair bushing I.D. 1.993-1.997

Upper idler shaft O.D.

(S-roller only) 1.974-1.975

Upper idler bushing I.D.

(S-roller only) 1.976-1.980

Fig. 44 — View showing the pre-load setting of the tension spring on models 440C and 440ICD. Refer to text.



John Deere 420 Crawler Shop Manual

A Gutmann



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