ECOLO-TIGER® 870

Mulch-Till Ripper

OPERATOR'S MANUAL

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CASE IH AGRICULTURE

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Mechanical depth control setting - Mechanical depth control setting

⚠ WARNING

Unexpected machine movement!
Be sure tires are firmly on the ground when installing stroke control segments.
Failure to comply could result in death or serious injury.

W0965A

⚠ WARNING

Crushing hazard!
Before working under the implement, always install the transport stops or lower the machine to the ground.
Failure to comply could result in death or serious injury.

W0946A

⚠ WARNING

Hazard to bystanders!
Always know the location of all workers in your area. Warn them before you start operating the machine. Always keep all unauthorized bystanders clear of the work area.
Failure to comply could result in death or serious injury.

W0206A

⚠ WARNING

Moving parts!
Disengage the Power Take-Off (PTO), turn off the engine, and remove the key. Wait for all movement to stop before leaving the operator's position. Never adjust, lubricate, clean, or unplug machine with the engine running.
Failure to comply could result in death or serious injury.

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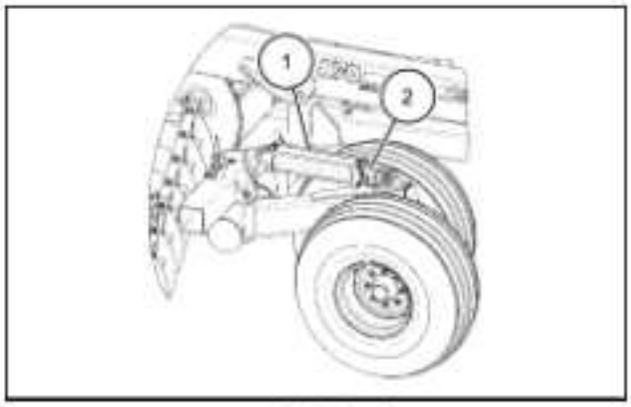
The wheels for the main frame on the Mulch-Till Ripper are used for field transport and to control the working depth of the machine. The mechanical depth control adjusts the Mulch-Till Ripper's working depth as follows:

1. Set the depth of the machine by installing stroke control segments **(2)** over the main lift cylinder **(1)** rods. Each machine is equipped with two sets of mechanical stroke control segments, one for each main lift cylinder. Each set contains a **25, 38, 51, 64, 76, 89, 102 and 114 mm** (**1, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4 and 4-1/2 in**) stroke control segment.

NOTE: *Stroke control segments for 7 and 9 shank machines are a smaller size than for the 11 and 13 shank machines. Do not intermix.*

2. Shank depth is obtained by using the appropriate size single depth control segment on each main lift cylinder to set for the desired shank depth and specific machine. See chart below to determine the depth segment size for your machine to set the shank depth.

3. For the mechanical depth control, every **13 mm** (**1/2 in**) change in stroke control segments, the machine shank depth will change approximately **25 mm** (**1 in**).



\ **(1)** Main lift cylinder **(2)** Stroke control segment

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MAINTENANCE CHART

Lubrication and maintenance chart

Interval	Page Nb.	Maintenance Action	Grease Nb. of pts	Check Grease	
AS REQUIRED MAINTENANCE	6-5	Lubrication points		X	
	6-6	Wheel bolt torque			X
	6-9	Wheel bearings			X
	6-15	Tire pressure			X
	6-16	Hydraulic Hose Connections			X
	6-19	Frame bolts			X
	6-22	Disk blades			X
	6-23	Arbor bolts			X
50 hours Service	6-24	Turnbuckle assembly upper grease location		X	
	6-24	Turnbuckle assembly lower grease location		X	
	6-24	Disk gang assembly grease locations		X	
	6-25	Reel assembly grease locations		X	
100 hours Service	6-26	Single hub assembly grease location		X	
	6-26	Tandem axle hub assembly grease location		X	
	6-26	Walking tandem pivot assembly grease location		X	
250 hours Service	6-27	Disk leveler hub assembly grease location		X	
	6-27	Individual disk hub assembly grease location		X	
	6-27	Leveler wing fold grease location		X	
	6-28	Disk frame wing fold grease location		X	
	6-28	Rear basket arm		X	
500 hours Service	6-29	Transport hub repack bearings		X	
	6-29	Walking tandem pivot		X	
ADJUSTMENTS	6-30	Wheel bolt torque			X

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Shank attachments

Shanks

Shank mountings	Bolted to main frame on **610 mm** (**24 in**) effective spacing with spring-reset or shear-bolt mountings
Shank assemblies	
Auto reset	**330 mm** (**13 in**) of trip clearance, hardened pins and composite bushings
Auto reset and shear bolt	**5/8 in** diameter, grade 5 shear bolt
Shanks	**32 x 102 mm** (**1–1/4 x 4 in**), optional wear shin
Shank points	Chromium carbide capped Tiger point

Disk blades

Disk blades

Individual option	**610 mm** (**24 in**) diameter individually mounted on **381 mm** (**15 in**) centers
Trunnion gang option	**660 mm** (**26 in**) diameter concave gang mounted on **305 mm** (**12 in**) centers

Blade protection

Cushion mounted blades in addition to a frame that lifts against a spring-loaded relief that automatically resets when obstruction is cleared.

Transport size

Highway transport chain (capacity)

7, 9 shank	**89890 N** (**20200 lb**)
11, 13 shank	**135225 N** (**30400 lb**)

Transport size

Main frame	Overall length with basket	Working width	Transport width
7 shank	**10.1 m** (**33.3 ft**)	**4.3 m** (**14 ft**)	**4.9 m** (**16 ft**)
9 shank	**10.1 m** (**33.3 ft**)	**5.5 m** (**18 ft**)	**5.1 m** (**16.8 ft**)
11 shank	**10.3 m** (**33.8 ft**)	**6.7 m** (**22 ft**)	**5.1 m** (**16.8 ft**)
13 shank	**10.3 m** (**33.8 ft**)	**7.9 m** (**26 ft**)	**5.5 m** (**18 ft**)

Weight

Weight

Approximate with disk gangs, S/R shanks and baskets	
7 shank	**6560 kg** (**14470 lb**)
9 shank	**9070 kg** (**20000 lb**)
11 shank	**11440 kg** (**25200 lb**)
13 shank	**12790 kg** (**28200 lb**)

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