ORIGINAL INSTRUCTIONS

OPERATOR'S MANUAL

Discbine® 209
Discbine® 210

Disc Mower-Conditioner

Part number 90354206
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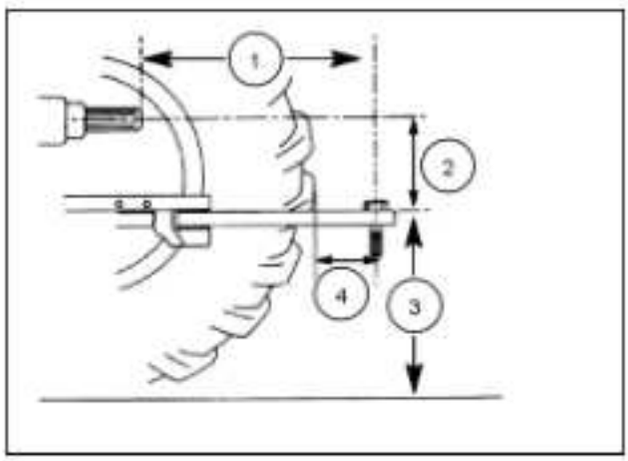
5 - WORKING OPERATIONS

General information

Before operating check

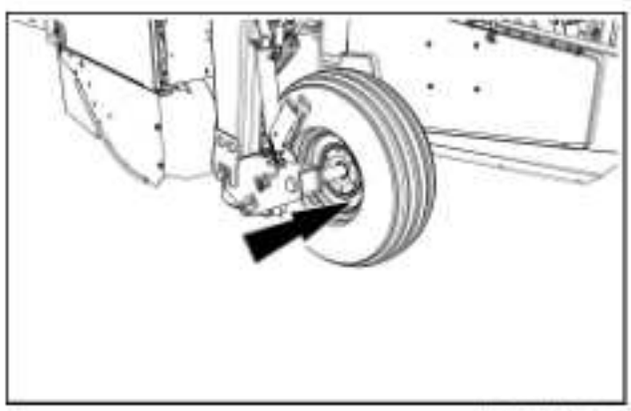
NOTICE: *For 7-disc units, the tongue must be locked in the field position before operating the Power Take-Off (PTO).*

Make sure that the tractor drawbar is adjusted properly. See "Tractor drawbar dimensions" (**3-2**).



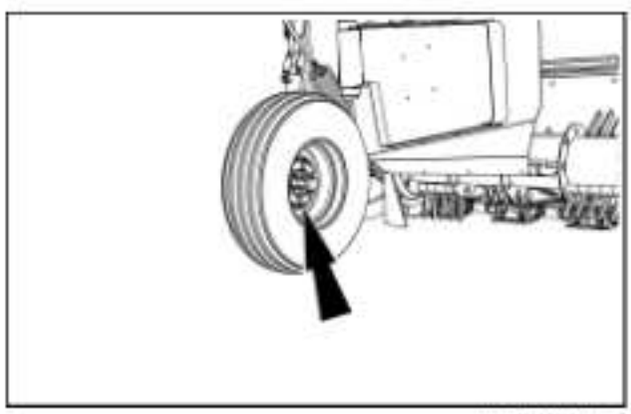
1

Check and adjust the tire pressure to **207 kPa** (**30 psi**).



2

Check and torque the wheel bolts to **156 N·m** (**115 lb ft**).



3

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Maintenance planning

Maintenance chart

Maintenance action	Grease	Change fluid	Tighten	Adjust	Check	Level make up	Resurface	Replace	Page no.
After first 8 hours									
Conditioner drive belt tension – Check				x					6-19
Tire pressure and wheel bolt torque - Check			x						6-20
After first 50 hours									
Swivel hitch gearbox – Change fluid		x							6-21
Bevel gearbox – Change fluid		x							6-22
Wheel bearings - Grease (Repack)	x								6-23
Cutterbar module – Change fluid		x							6-24
Roll conditioner drive gearbox – Change fluid		x							6-25
Step-up gearbox - Change fluid		x							6-26
Every 8 hours or daily									
Primary Power Take-Off (PTO) shaft - Grease	x								6-28
Secondary Power Take-Off (PTO) assembly – Grease	x								6-29
Swivel hitch trunnion assembly – Grease	x								6-31
Conditioner roll drive shafts - Grease	x								6-31
Cutterbar drive shaft - Grease	x								6-31
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Conditioner roll pivots - Grease	x								6-33
Wheel arms and header lift arms - Grease	x								6-34
Tongue pivot pin - Grease	x								6-34
Cutterbar modules – Check					x				6-35
Every 50 hours or monthly									
Conditioner rolls pressure crank – Grease	x								6-37
Flail conditioner hood adjustment crank – Grease	x								6-37
Conditioner bearings - Grease	x								6-37
Cutterbar modules oil level – Check					x				6-38
Bevel gearbox oil level – Check						x			6-39
Swivel hitch gearbox oil level – Check					x				6-40
Step-up gearbox oil level - Check						x			6-41
Roll conditioner drive gearbox oil level – Check						x			6-42
Conditioner drive belt tension - Check				x					6-42
Tire pressure and wheel bolt torque - Check			x						6-42
Every 100 hours or annually									
Conditioner rolls pressure crank – Grease	x								6-43
Flail conditioner hood adjustment crank – Grease	x								6-37
Swivel hitch gearbox – Change fluid		x							6-43
Bevel gearbox – Change fluid		x							6-43
Cutterbar modules – Change fluid		x							6-43
Step-up gearbox - Change fluid		x							6-44
Roll conditioner drive gearbox – Change fluid		x							6-44
Friction slip clutch – Burnish (resurface)							x		6-44
Wheel bearings – Grease (repack)	x								6-44
Conditioner rolls timing – Adjust - Rubber roll conditioner units only				x					6-45
Conditioner roll timing - Steel roll conditioner units only				x					6-46
Conditioner rolls gap – Adjust				x					6-47
As required									

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8 - SPECIFICATIONS

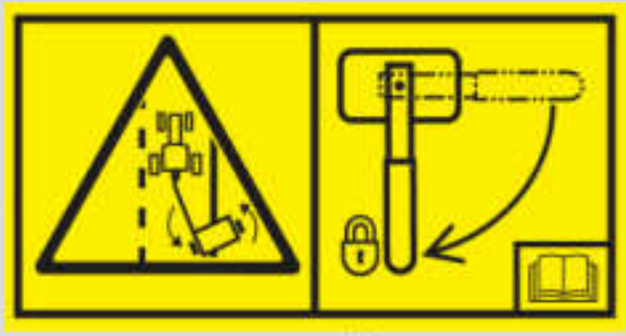
Machine specifications

	Discbine® 209		Discbine® 210	
	Roll	Flail	Roll	Flail
Header				
Cutting width	**2800 mm (9 ft 2 in)**		**3160 mm (10 ft 4 in)**	
Windrow width	**914 – 1830 mm (36 – 72 in)**		**914 – 2134 mm (36 – 84 in)**	
Flotation	Spring floated, vertical and radial path			
Header lift mechanism	Hydraulic (master-slave system)			
Cutterbar				
Type	Modular			
Number of discs	7		8	
Knives per disc	2			
Disc cutting diameter	**500 mm (19.7 in)**			
Disc drive	Bevel gears in sealed modules.			
Disc speed	**3000 RPM**			
Cutting height, approximate	**29 – 68 mm (1.1 – 2.7 in)** Refer to **5-5** for more details.		**21 – 60 mm (0.8 – 2.4 in)** Refer to **5-5** for more details.	
Conditioner				
Type	Intermeshing rolls	Flails	Intermeshing rolls	Flails
Drive	4HB V-belt and spur gears	4HB V-belt and bevel gears	4HB V-belt and spur gears	4HB V-belt and bevel gears
Conditioner material	Molded rubber with intermeshing chevron design. Steel ribbed with intermeshing chevron	Cast, hardened steel	Molded rubber with intermeshing chevron design. Steel ribbed with intermeshing chevron	Cast, hardened steel
Conditioner speed	**647 RPM**	**718 RPM** **1000 RPM** (Optional).	**635 RPM**	**718 RPM** **1000 RPM** (Optional).
Conditioner length	**2286 mm (90 in)**		**2591 mm (102 in)**	
Roll or flail rotor diameter	**264 mm (10.38 in)**	**560 mm (22 in)**	**264 mm (10.38 in)**	**560 mm (22 in)**
Capacity				
Cutting capacity	**2.5 Ha/hr (6.1 Ac/hr)** at **10 km/h (6 mph)** and **80%** field efficiency			
Maximum speed, field operating	**14 km/h (9 mph)**			
Maximum speed, road transport	**32 km/h (20 mph)** maximum			
Tire specification	9.5L x 14L 6-ply tubeless agricultural implement tire		11L x 15L 6-ply tubeless agricultural implement tire	9.5L x 14L 6-ply tubeless agricultural implement tire
Tongue swing mechanism	Standard: Hydraulic			
Tilt system	Standard: Mechanical linkage Optional: Hydraulic		Standard: Hydraulic	

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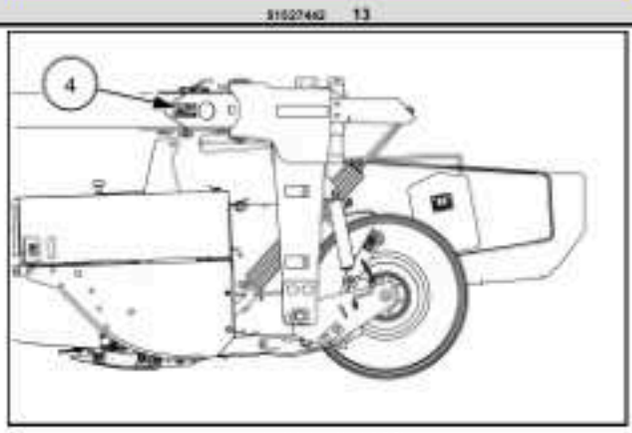
WARNING
IMPLEMENT LOSS OF CONTROL HAZARD!
BEFORE TOWING
Charge cylinder with oil.
Rotate valve handle to lock position.
Failure to comply could result in death or serious injury.

Quantity: 1
51527442



51527442 13

(4) Located on the left-hand side of the tongue.



NHBL18HTOD051AB 14

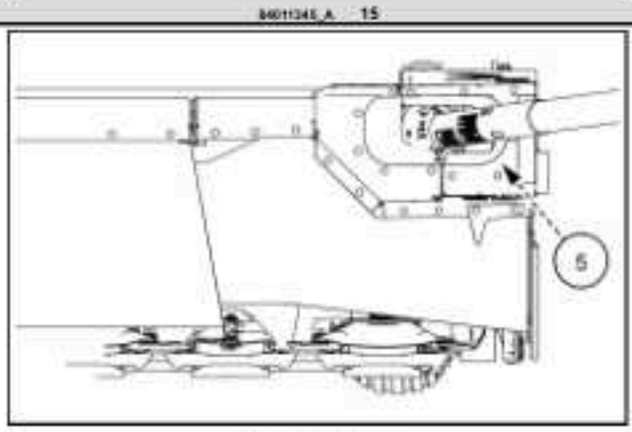
DANGER
ENTANGLEMENT HAZARD!
OPEN DRIVELINE
DO NOT OPERATE WITHOUT
All driveline, tractor and equipment shields in place.

Quantity: 1
84011345



84011345_A 15

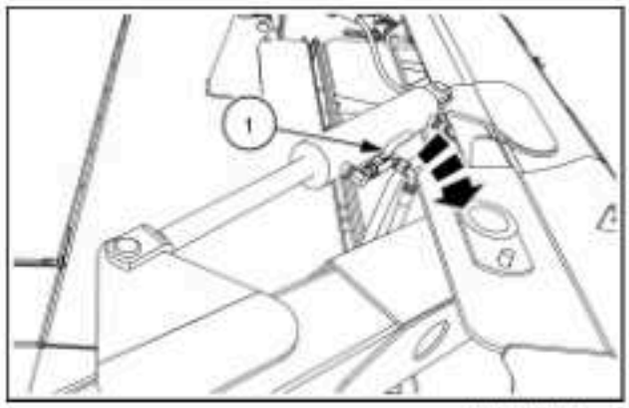
(5) Located underneath the left-hand swing-out side shield.



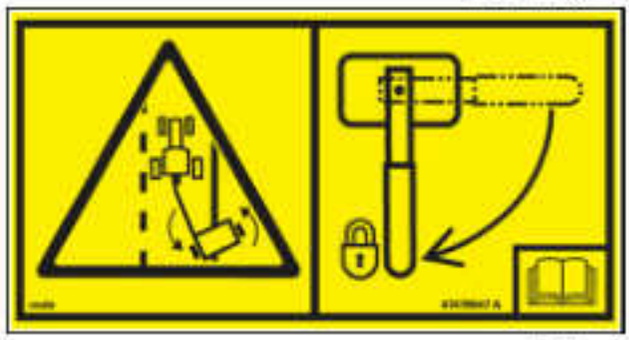
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Rotate the handle on the tongue swing cylinder quarter-turn valve **(1)** to the locked position.



3

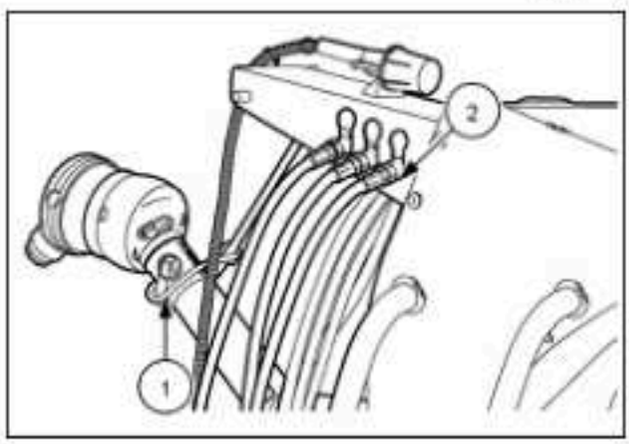


4

Hose and Power Take-off (PTO) storage

Leave the hydraulic hoses **(1)** and PTO shaft **(2)** connected to the tractor or be sure they are positioned in the hanger and secured to prevent damage.

If PTO shaft is positioned in the hanger, remove the front half of the PTO shaft to prevent damage to the shaft.



5

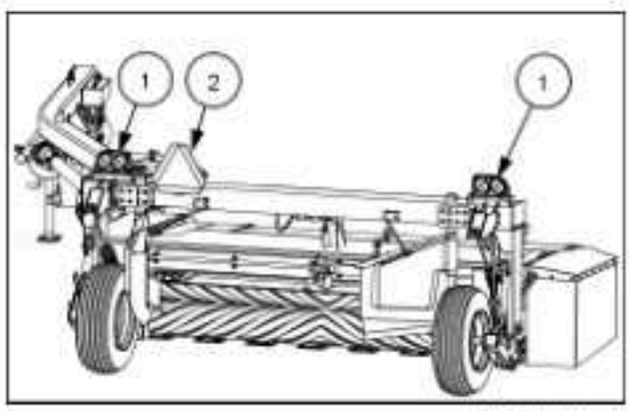
Lighting

When towing the implement on a road or highway, ensure that the flashing lights harness is connected to the tractor, and the lights **(1)** are functioning to adequately warn operators of other vehicles. Consult local governmental regulations for specific lighting requirements.

Slow-Moving Vehicle (SMV) emblem

Some states and provinces require Slow-Moving Vehicle (SMV) emblems **(2)** on machines traveling at speeds under **40 km/h** (**25 mph**). Consult local regulations for information and mounting requirements.

An SMV mounting bracket is located on the left-hand side of the rear of the frame. The SMV emblem and mounting bracket are furnished as standard equipment.



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