DCX101 Disc Mower-Conditioner

Repair Manual

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CUTTER BAR FLOTATION

⚠ WARNING ⚠

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

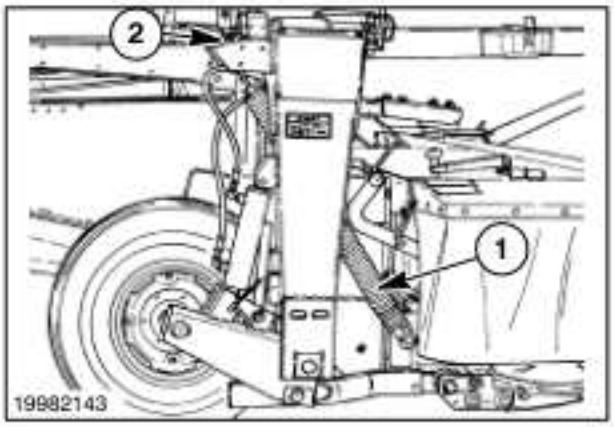
The cutter bar flotation is controlled by flotation springs, 1, at each end of the header.

Adjust the cutter bar flotation for about 45 – 55 kg (100 – 120 lb) at each end of the header, if operating in rocky fields at lower 5 - 8 KPH (3 - 5 MPH) ground speeds.

NOTE: *Do not exceed 68 kg (150 lb) flotation force, or header damage may result.*

Turn adjusting bolts, 2, as required. Check flotation with the header swung fully to the right, lowered to the ground, and tilted as desired.

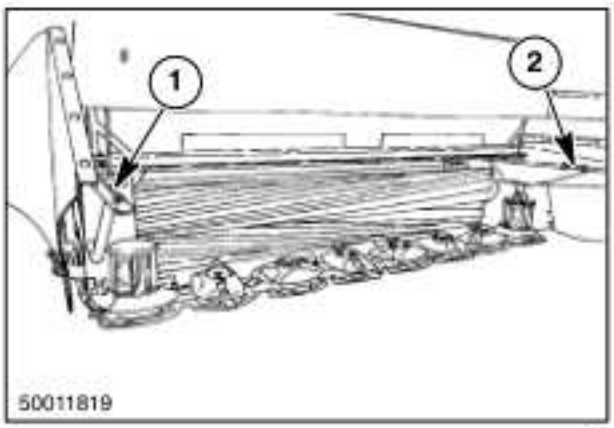
NOTE: *The cutter bar flotation should be checked and adjusted when using tractors with different drawbar heights, or when installing or removing the high stubble kit.*



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Raise the cutter bar center shield and lift on the left and right end supports, 1 and 2. Operating with heavier than necessary weight results in side draft and excessive wear to cutter bar components. If the header is too light, long stubble results when the header does not quickly return to ground level after crossing a bump.

NOTE: *Check flotation frequently, because crop and dirt buildup can cause the flotation weights to change.*



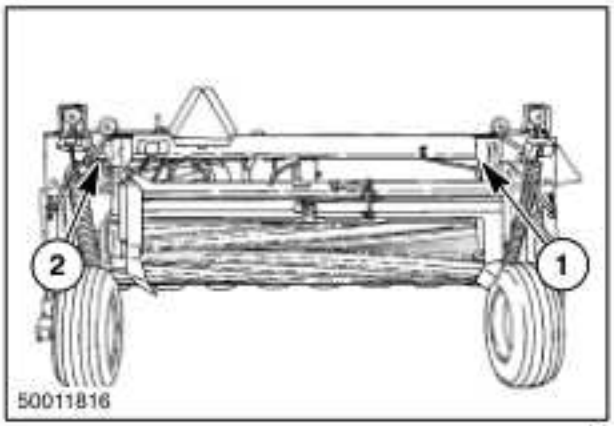
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PROBLEM	POSSIBLE CAUSE	CORRECTION
Forming poor or bunchy windrow	Tractor PTO speed too slow.	Maintain RPM on the tractor PTO. (Do not overspeed.)
	Incorrect swath gate adjustment.	Adjust the swath gate to even discharge flow.
	Incorrect windrow shield adjustment.	Adjust the windrow shields.
Pulling material out of the ground when cutting back swath or tall material is leaning into the machine.	Excessive roll pressure.	Reduce roll pressure or increase roll clearance.
Excessive power requirements.	Ground speed too slow.	Use faster ground speed.
Material being discharged out of the left side of the machine.	Cutter bar not taking a full cut; #1 disc not running in standing crop.	Shift unit right into standing crop to take full cut.
	Inner left side curtain worn or damaged.	Replace inner left side curtain.
Soil buildup on front of cutter bar.	Very wet crop conditions.	Adjust flotation springs to reduce header flotation weight.
		Raise the cutting height with header tilt.
		Install high stubble kit.

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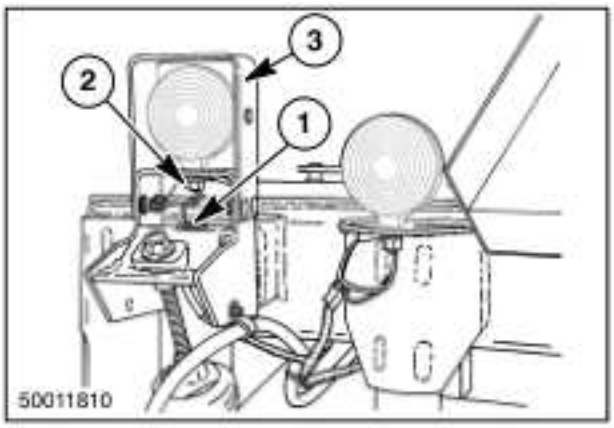
2. Route the left side portion of the harness through the hose clamp on the flotation spring mount.
3. The remaining portion of the wire harness to the right side lights must be routed through the frame. Push a piece of stiff wire into the frame from the right side opening, 1, and pull it out the left side opening, 2. Attach the harness to the wire and pull it through the frame. Route the harness through the existing hose clamp on the flotation spring mount.
4. Tighten the clamps on the front and rear of the tongue after taking up all slack and ensuring that a sufficient length of harness is available to connect to the tractor.



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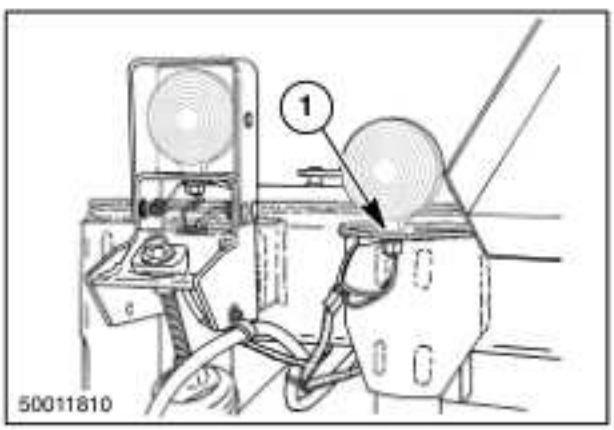
Installing the Lights

1. Install the grommets into the hole, 1, on top of each flotation spring mount. Route the portion of the harness containing two connectors through the grommet. Install a fiber washer over the stem of the amber light, 2, and position it in the mount. Install a flat washer, the white wire ring connector, a lock washer and nut onto the stem, and tighten securely. Plug the blue wire on the amber light into the yellow harness wire on the left side of the unit, or the green wire on the right side of the unit.
2. Install the protective brackets, 3, over the amber lights and secure to the mount using four 3/8" x 1" carriage bolts and flange nuts as shown.



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3. Install a fiber washer over the stem of the red light, 1, and position it in the mount on the trailframe above the windrow shield pivots, with the red portion of the lamp facing rearwards. Install a flat washer, the white wire ring connector, a lock washer and nut onto the stem, and tighten securely. Plug the red wire from the light into the red wire on the harness, and the black wire from the light into the brown wire on the harness. Repeat on the opposite side.



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