SERVICE MANUAL

BC5060
BC5070

Small Square Baler

Part number 48141460
1st edition English
April 2017
Replaces part number 48046680

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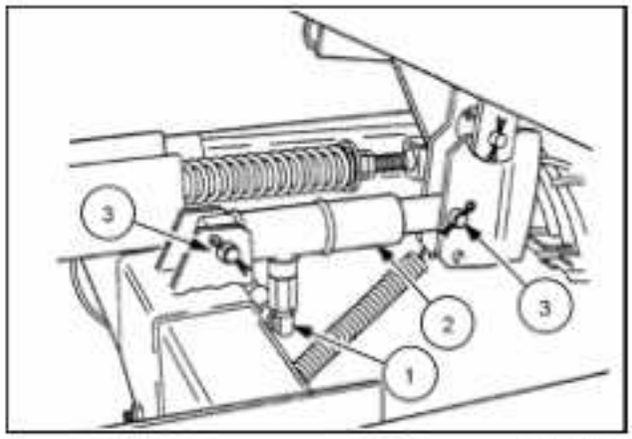
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Pickup lift circuit - Remove

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Pickup lift cylinder

1. Clean the area around the cylinder.
2. Be sure there is no pressure in the line to the cylinder and disconnect the line from the elbow **(1)**.
3. Remove the cylinder **(2)**, from the baler by removing the cotter pins and drilled pins at **(3)**.



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Pickup - Problem solving

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OPERATION

Operate the baler through the tying cycle manually or using the tractor engine at idle RPM. Thereby the items listed under "Possible Cause" can be observed to determine the concern. Refer to the knotter maintenance section for additional information and correct adjustment and procedure.

TROUBLESHOOTING

- In troubleshooting knotter malfunctions, it is necessary to identify the characteristics of the knot mis-tie, then match the characteristic of them is-tie to the concern column and to identify the possible cause and remedy.

Problem	Possible Cause	Correction
Irregular bale length.	Metering wheel out of adjustment.	Adjust to obtain **1.5 – 3 mm** (**0.059 – 0.118 in**) clearance between trip arm and friction disc.
	Trip arm does not pivot freely.	Check for deformed bushing or over tightened locknut.
	Worn trip arm.	Replace.
	Trip arm slips on drive disc.	Be sure spring is installed correctly.
	Worn friction disc.	Replace.
	Knotter stop is out of adjustment.	Adjust to release after trip arm "jumps" forward.
	Uneven feeding due to uneven windrows.	Vary ground speed according to windrows.
	Overfeeding due to pickup drive belt frozen or too tight.	Check and adjust pickup drive belt.
	Ground speed is too fast.	Slow down.
	Knotter brake loose.	Adjust the knotter brake to specifications.
	Incorrect density adjustment procedure.	To increase density, adjust in the following sequence: 1. Hydraulic tension or spring pressure to at least mid-range. 2. Side doors, if equipped 3. Hay wedges, starting at the foremost position.
	Dry or springy crop.	Increase slices per bale. Maintain **540 RPM** PTO speed. Add bale case extension kit (not with thrower). Operate baler to produce a maximum of **76 mm** (**3 in**) slices.
	Throttling the tractor back to idle while on the headland results in reduced hydraulic pressure to the tension rail.	Irregular bale length is not noticed until the third bale, after the headlands, is ejected from the baler. Maintain rated engine speed on the tractor when approaching or on the headlands.
Hydraulic tension not working.	Incorrect oil used.	Drain and refill with clean hydraulic oil.
	Relief valve sticking.	Clean valve.
	Vanes sticking.	Free vanes and reseal pump.
	Dirty oil causing pump failure.	Repair as necessary. Clean reservoir top before checking oil level.

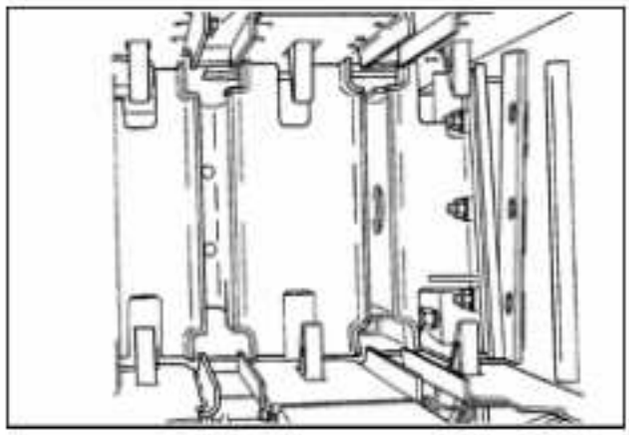
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Plunger Knife - General specification

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Plunger and knife adjustment specifications

The following is a list of the plunger and knife related adjustment specifications. Refer to the appropriate section for the adjustment procedures.



Stationary knife to vertical rail:

- **0.05 – 0.25 mm (0.002 – 0.010 in)**

Plunger knife to vertical rail:

- **0.05 – 0.25 mm (0.002 – 0.010 in)**

Plunger knife to stationary knife:

- **0.025 – 0.75 mm (0.001 – 0.030 in)**

Guide rail to lower slide block:

- **0.025 – 0.127 mm (0.001 – 0.005 in)**

Top slide block to top rail:

- **0.025 – 0.75 mm (0.001 – 0.030 in)**

Plunger to top of bale case:

- **4 mm (0.16 in)** at tightest point

Lower horizontal bearing to rail:

- **0.025 – 0.127 mm (0.001 – 0.005 in)**

Upper horizontal bearing to rail:

- **0.025 – 0.127 mm (0.001 – 0.005 in)**

Upper left-hand vertical bearing to rail:

- Light contact at tightest point

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