SERVICE MANUAL

DuraDisc™ 107M
DuraDisc™ 108M
DuraDisc™ 109M

Disc Mower

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NEW HOLLAND AGRICULTURE

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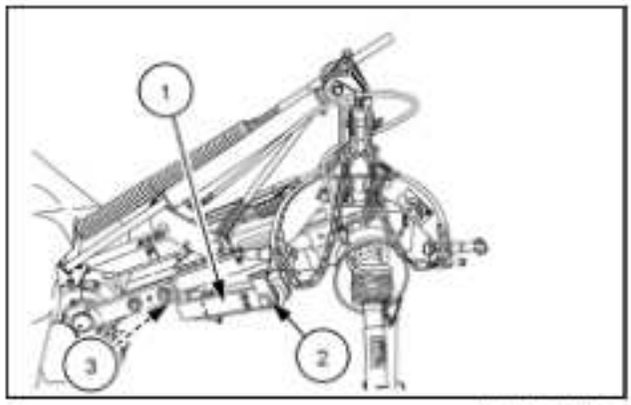
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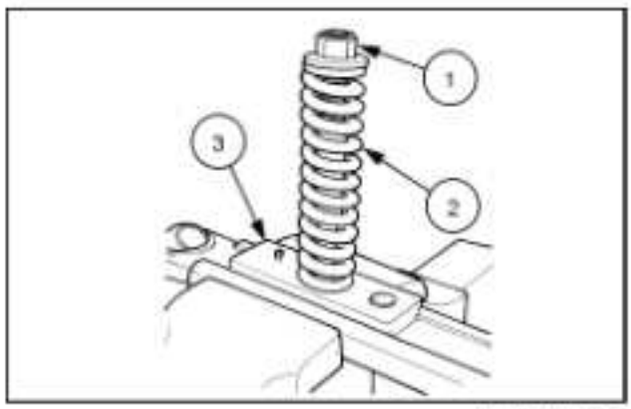
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Attachment/Header frame - Remove - Breakaway link

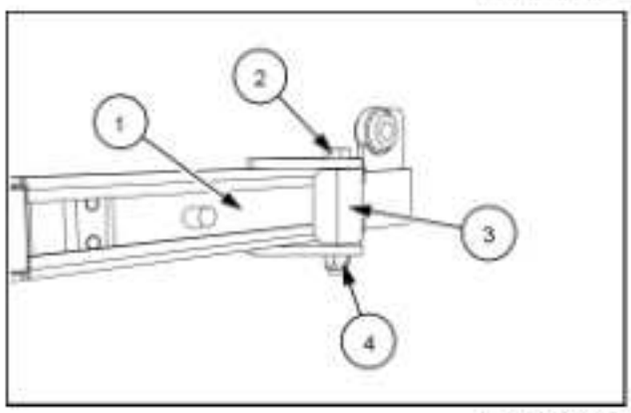
1. Lower the mower onto a flat level surface. Remove the following hardware to remove the breakaway link assembly **(1)** from the mower.
   - Front hardware **(2)**
     - 1-1/8 inch-7 x 4 inch bolt
     - Two washers
     - 1-1/8 inch-7 prevailing torque nut
   - Rear hardware **(3)**
     - 7/8 inch-9 x 3-3/4 inch bolt
     - 7/8 inch-9 prevailing torque nut



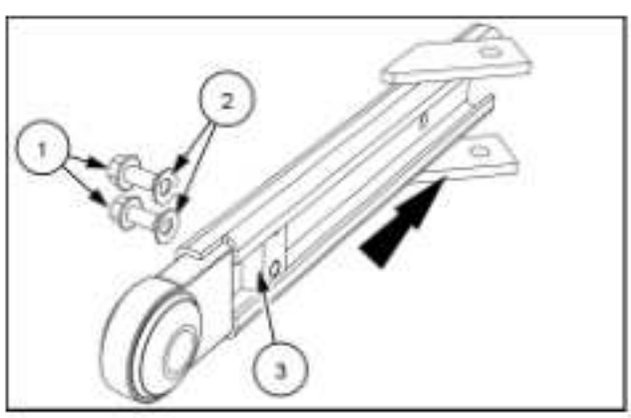
2. Clamp the assembly in a vise with the spring facing up.
3. Remove the nut **(1)** washer and spring **(2)**.
4. Remove the pawl **(3)** from the slide assembly.



5. Remove the 5/8 inch prevailing torque nut **(4)** and 5/8 inch-11 x 5 inch bolt **(2)** holding the slide stop **(3)** to the channel.
6. Pull the slide assembly **(1)** out of the channel.

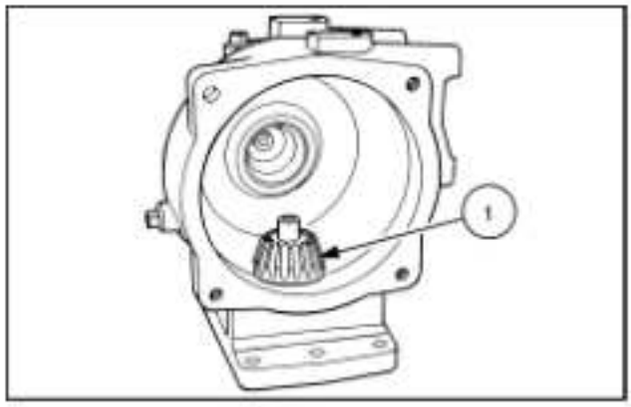


7. Flip the channel over in the vise and remove the two flange bolts **(1)** and two 1/2 inch Belleville lock washers **(2)**.
8. Slide the dog **(3)** out of the channel.



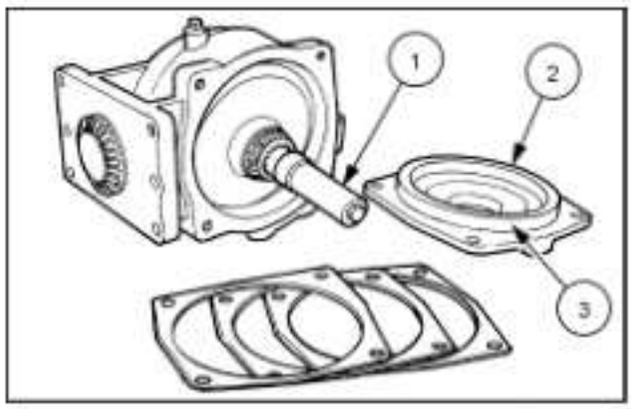
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8. Press a new bearing cone onto bevel gear shaft and install the bearing cup into the gearbox bore.
9. Install the bevel gear shaft into the gearbox through the seal and slide the pinion gear **(1)** and bearing assembly down over the splines until the bearing cone seats in the bearing cup.
10. Install the special castellated nut onto the shaft and tighten the nut while rotating the shaft to seat the components. Back off the nut and tighten to obtain **0.23 – 0.68 N·m (2 – 6 lb in)** rolling torque.



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11. Press the bearing cones onto the input shaft and install the appropriate bearing cups into the housing and cover. Do not install the seal into the cover yet.
12. Install the input shaft **(1)** and cover **(2)** onto the gearbox, and shim (shim pack thickness of **0.635 mm (0.025 in)** is a good starting point) between the housing to obtain the appropriate rolling torque per the attached chart:



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Output Shaft Rolling Torque	Input Shaft Rolling Torque
0.23 N·m (2 lb in)	0.90 – 1.36 N·m (8 – 12 lb in)
0.34 N·m (3 lb in)	1.24 – 1.69 N·m (11 – 15 lb in)
0.45 N·m (4 lb in)	1.58 – 2.03 N·m (14 – 18 lb in)
0.56 N·m (5 lb in)	1.92 – 2.37 N·m (17 – 21 lb in)
0.68 N·m (6 lb in)	2.26 – 2.71 N·m (20 – 24 lb in)

13. After setting the input shaft rolling torque, remove the cover and install the shaft seal by driving it into the bore until it seats against the shoulder in the cover.
14. Grease the seal lip liberally before reinstalling the cover.
15. Apply silicone sealant to the cover sealing flange **(3)**, reinstall the cover and tighten the hardware.

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