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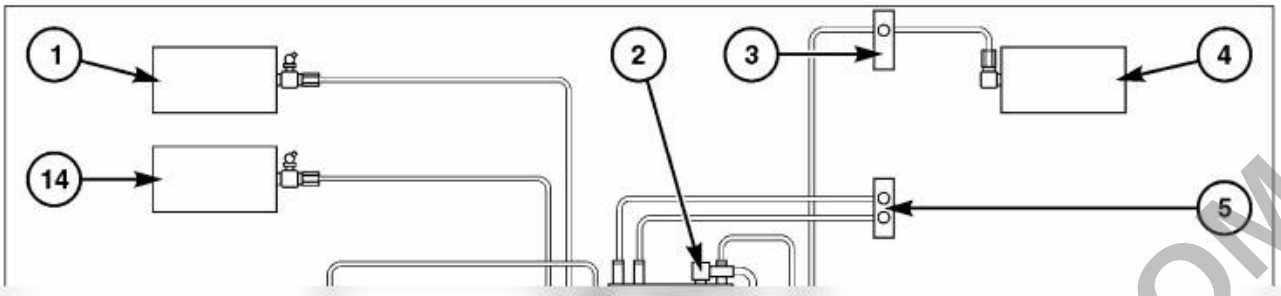
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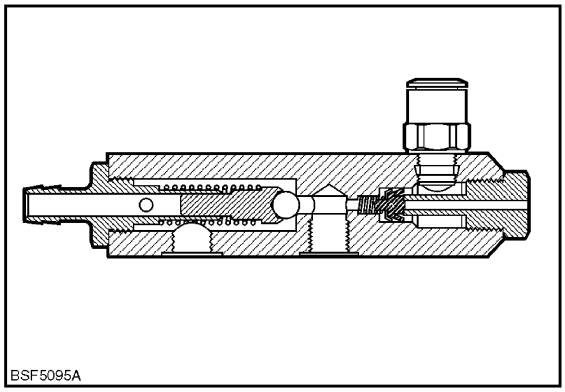
LUBRICATION SYSTEM Greasing - Overview



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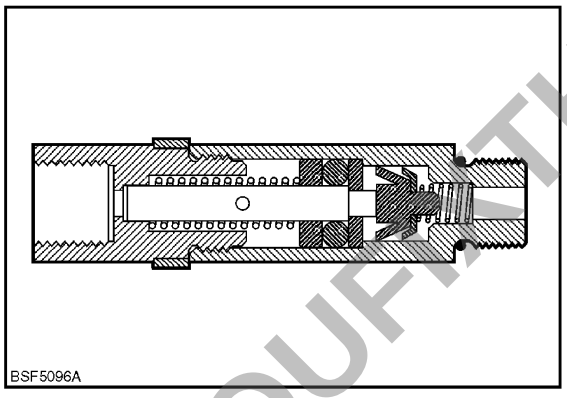
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BSF5095A 4

Injectors overhaul is not recommenced but can be cleaned with a light proprietary cleaner. If the injector is not functioning replace with new.



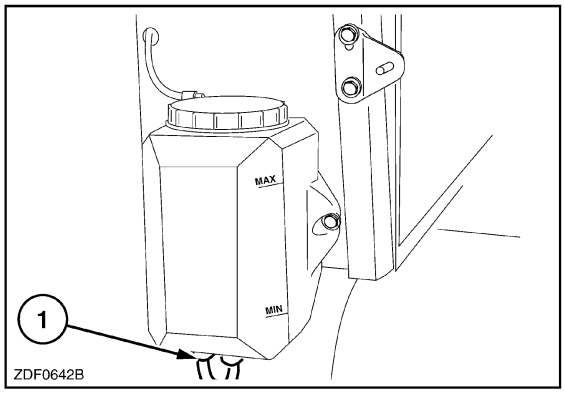
BSF5096A-2 5

NOTE: *The oil filter must be changed annually .*

Drain the oil from the lower external drain plug **(1)** turn the filter **(2)** vertically **90 °** remove and discard.

Fit the new filter **(2)** and turn horizontally **90 °** next to the relief valve **(3)**. Refill the reservoir to Maximum and vent the system as described below.

Venting the oil pump: Should the oil level fall below minimum or when the oil is drained to change the filter it will be necessary vent the oil pump to restart it.
Remove the left hand connection **(1)** and using the monitor run the motor until oil is running from the hose. Reconnect the hose and top up reservoir to its maximum level.



ZDF0642B 6

IMPORTANT: *Never run the motor dry for more than 4 seconds or it will become damaged*

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PARKING BRAKE Mechanical - Remove

⚠ CAUTION ⚠

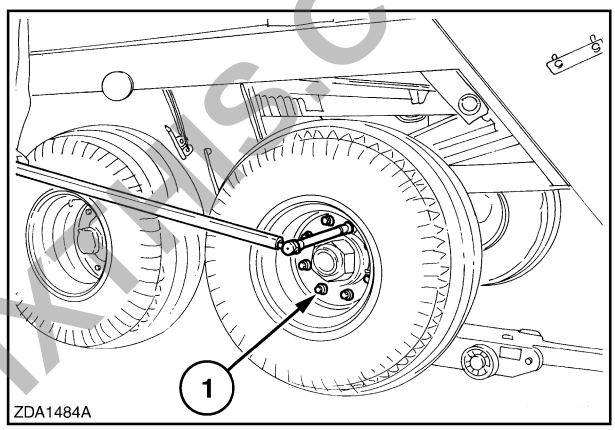
Before you do service under the machine, put the machine on a level surface, engage the parking brake and stop the engine. Put blocks at the front and rear of the tires. Failure to comply could result in death or serious injury.

46-77A

1. Loosen wheel nuts **(1)**Lift the baler and remove wheel nuts **(1)**

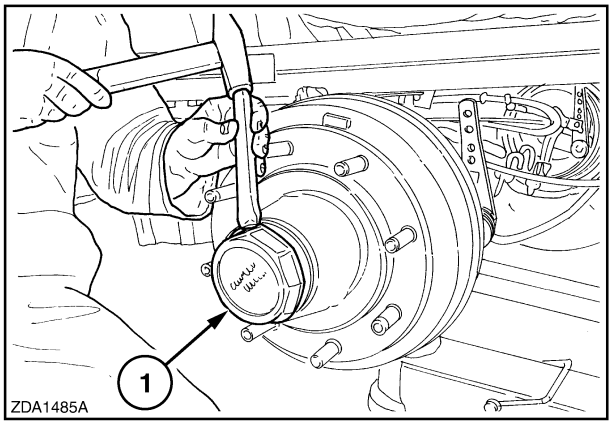
ATTENTION: *At least a five ton jack is required.*

2. Remove the wheel.



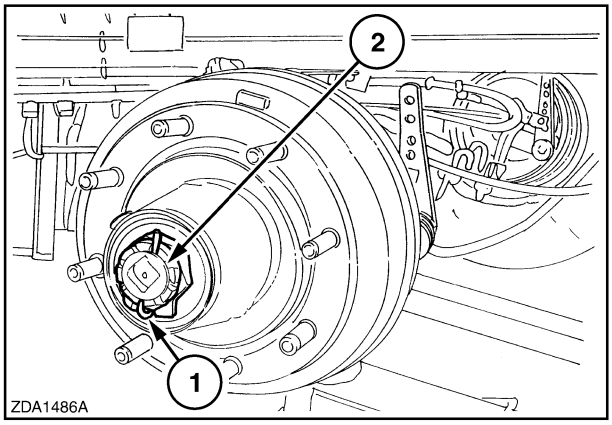
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3. Remove cap **(1)**



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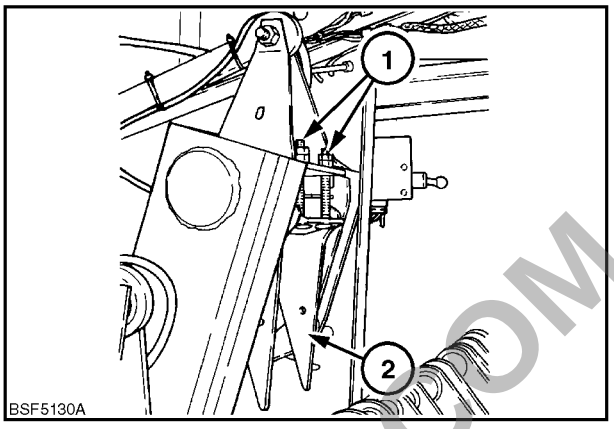
4. Remove spring pin **(1)**
5. Remove castle nut **(2)**



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8. Position the lower half of the fork **(2)** around the journal and install the proper amount of shims.
Install the four mounting bolts and nuts **(1)**. Allow the locking compound to properly cure before attempting to adjust bearing clearance.
Adjust the bearing clearance until the forks pivot freely without any play. See Bearing Clearance Adjustment in this section.
If bearings have excessive clearance, remove shims and readjust the clearance.
Install the jam nuts to the fork; repeat the above steps to the remaining fork(s) as needed.

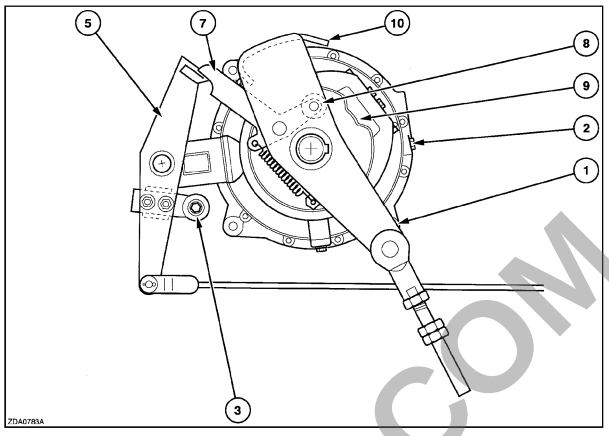


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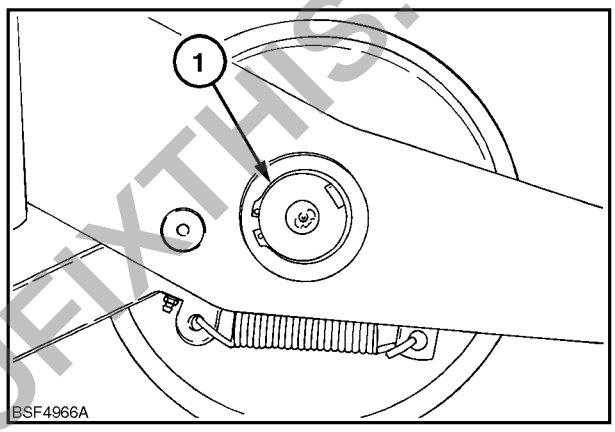
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8. Tie the clutch arm to the twine guides in the area to hold it out of the way.



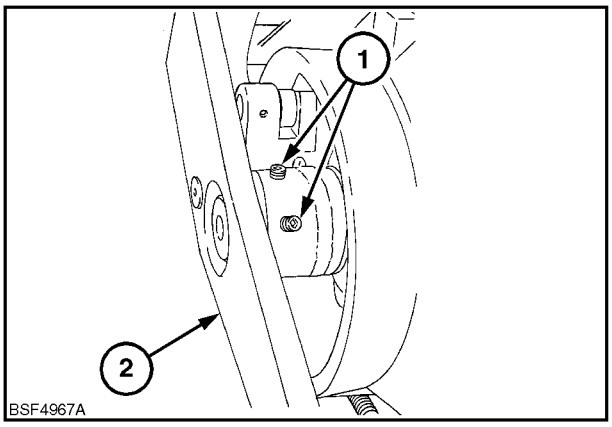
ZDA0783A 7

9. Remove the external retaining ring **(1)** from the end of the knotter shaft.



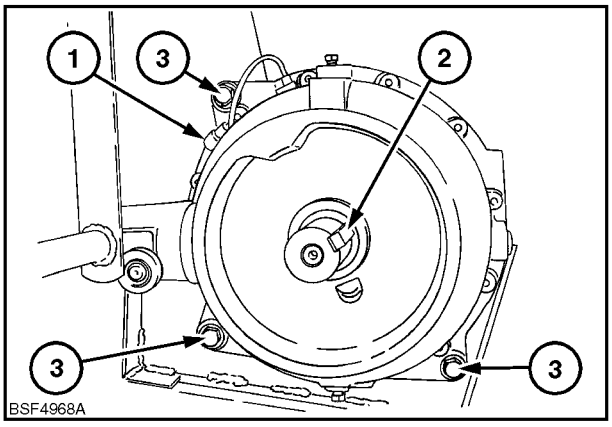
BSF4966A 8

10. Loosen the two set screws **(2)** in the hub of the needle arm **(15)**. Slide the needle arm assembly off the knotter shaft. If a puller is required, remove the grease fitting in the end of the shaft. Insert some washers into the end of the shaft to protect the threads.



BSF4967A 9

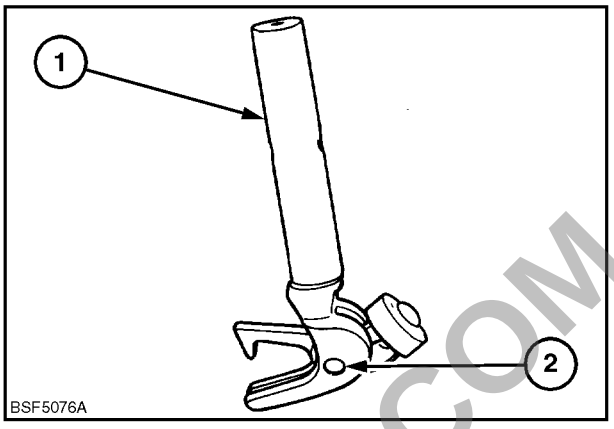
11. There is an electrical connector **(1)** to be separated near the gearbox sensor. Pry the square key **(2)** out of the shaft. Use blocks of wood to support the left end of the knotter shaft, especially on a 4 Knotter baler. Remove the three bolts **(3)** around the periphery of the gearbox.



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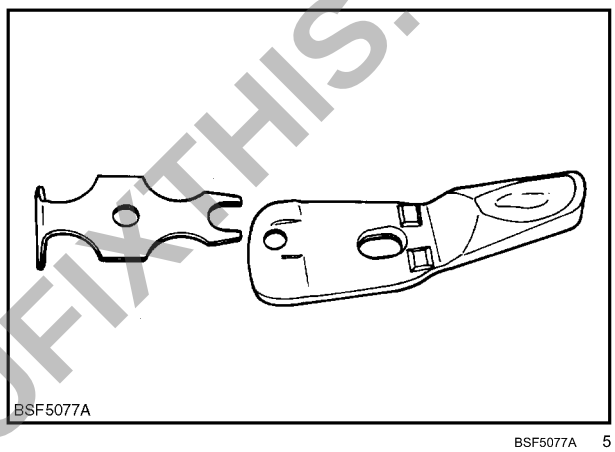
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4. Billhook tongue **(1)** and mounting pin **(2)**. Billhook should have a half moon profile and be smooth. Replace tongue if grooved or bent.



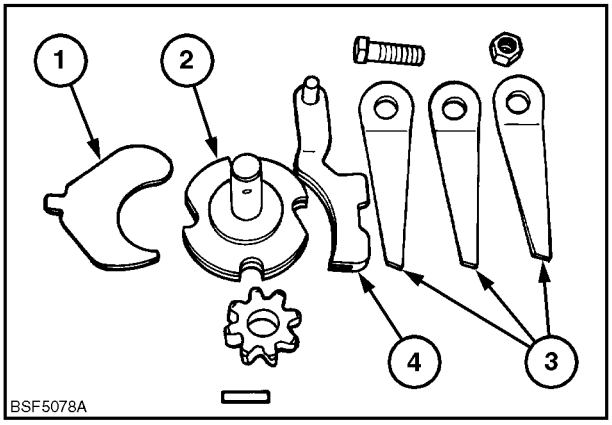
BSF5076A 4

5. Billhook cam.



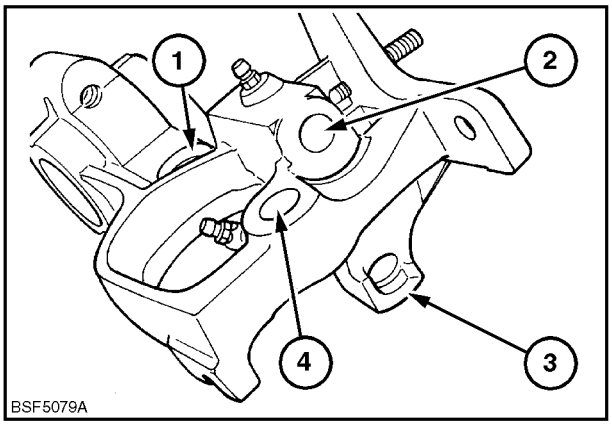
BSF5077A 5

6. Inspect twine disc springs **(3)** for cracks. Twine disc cleaner **(1)** wear. Look for worn twine disc **(2)** notches and grooves in twine holder **(4)**.



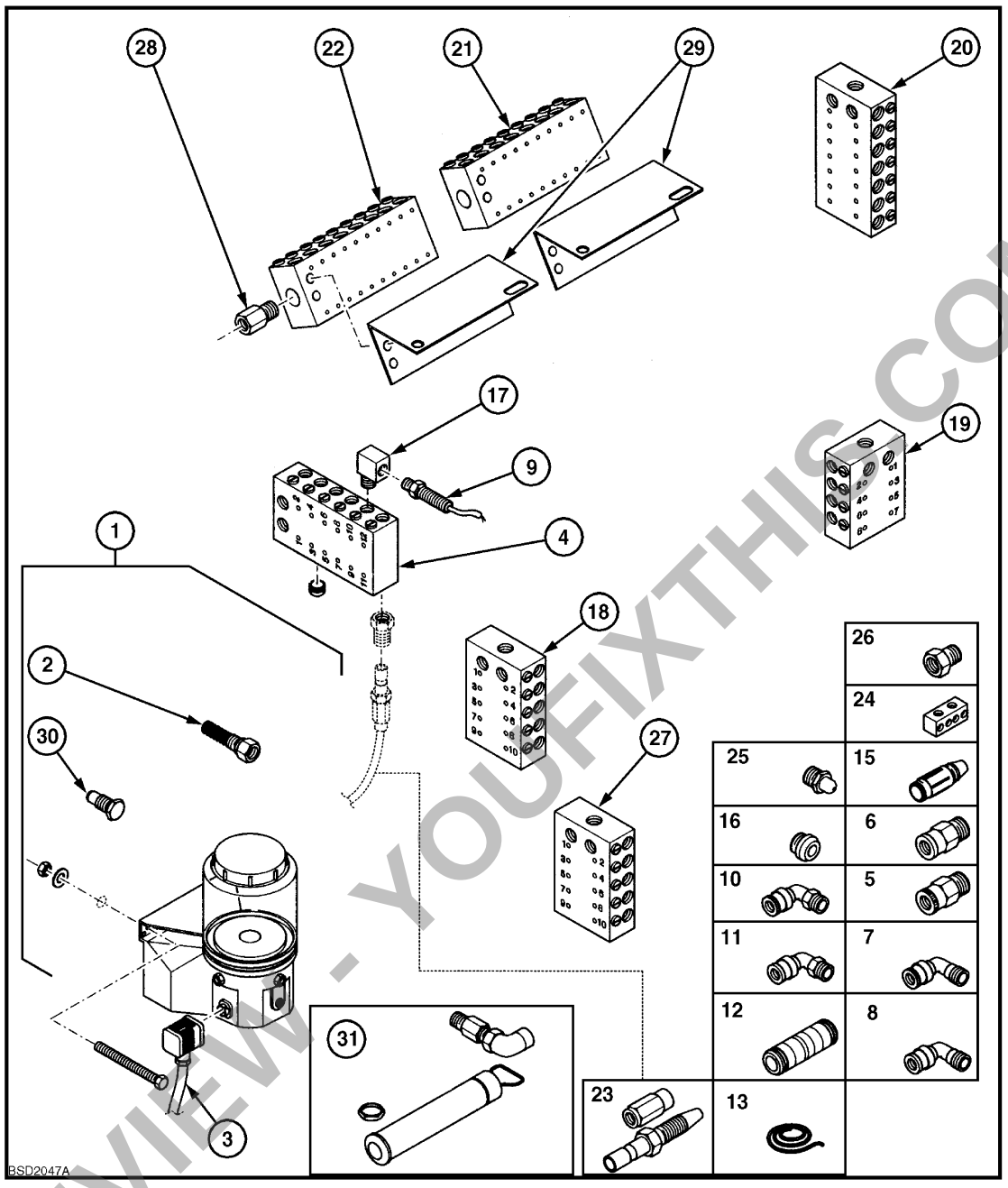
BSF5078A 6

7. Twine disc shaft bore **(1)**. Worm shaft bore **(2)**. Billhook bore **(3)**. Knife arm bore **(4)**.



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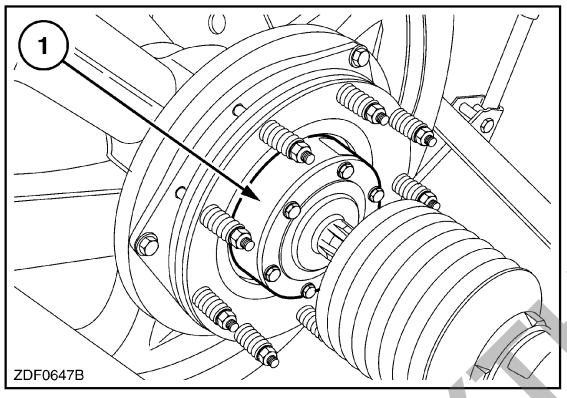
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Torque limiter - Static description

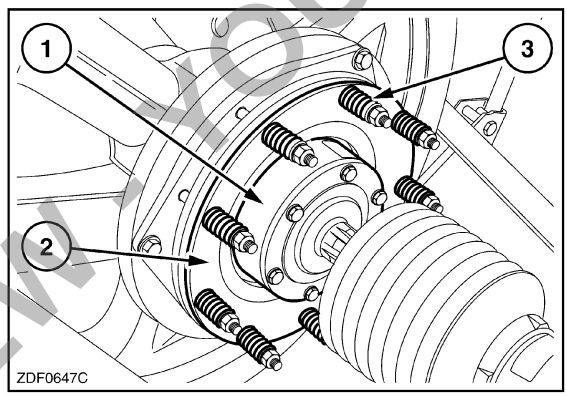
The flywheel slip clutch acts in conjunction with the flywheel shearbolt to protect the PTO drive shaft and baler main drive components.
The slip clutch requires very little maintenance, all that is required is the spring length setting is set and maintained periodically or after any overhaul operation.

The clutch assembly incorporates an overrunning device that allows the baler flywheel to "freewheel" clockwise when the PTO is disengaged or the tractor engine speed is reduced.



ZDF0647B 1

Should the baler be obstructed during operation the slip clutch body **(1)** will move against friction linings.
These linings are held externally of the slip clutch body between a thrust plate and flange at **(2)** by the external pressure spring **(3)**.
The spring pressure is constant around the springs on each clutch but vary between the baler models : **Torque limiter - Torque (B.90.A)**

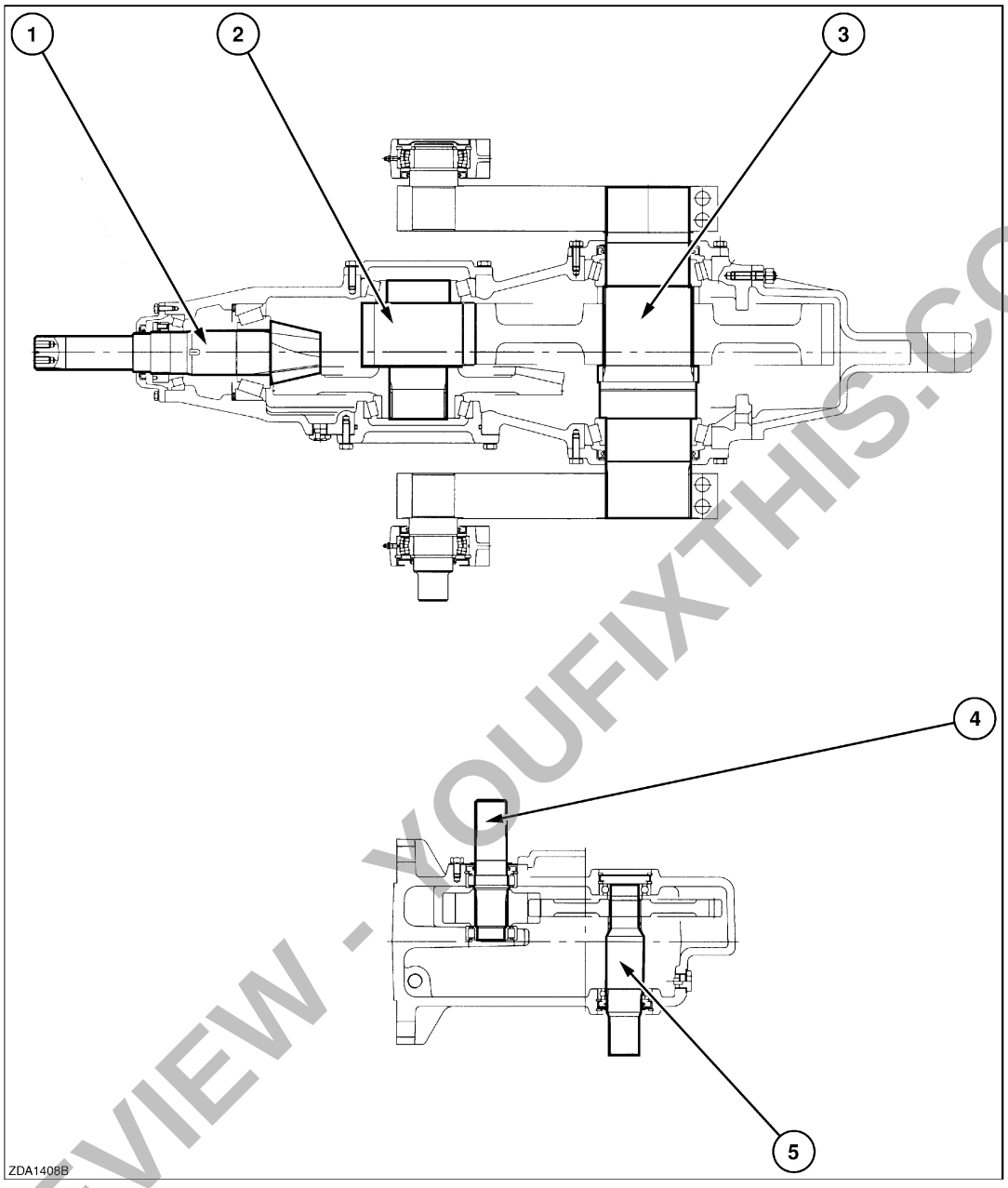


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Gearbox - Drawing



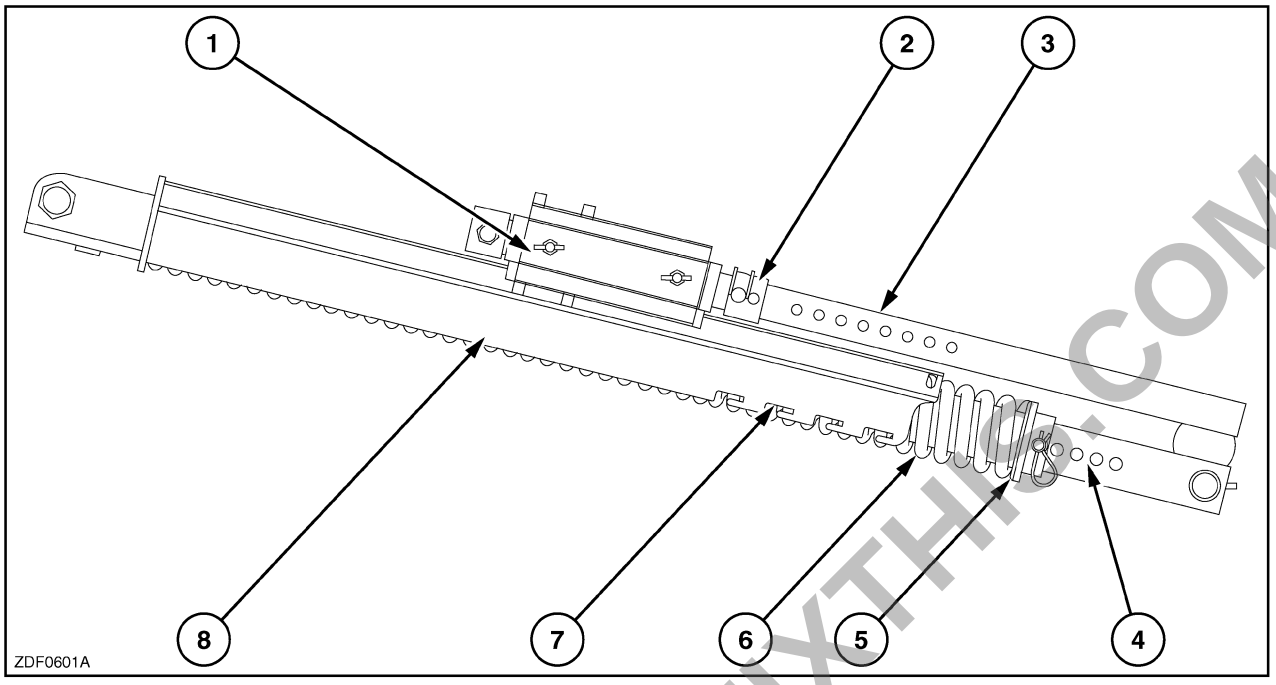
ZDA1408B 1

1. Input shaft	4. Packer/Rotor + pick-up drive shaft
2. Intermediate shaft	5. Stuffer/Knotter drive shaft
3. Plunger crank drive shaft	

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PICKING Picking up - External view



ZDA0601A 1

CYLINDER COMPONENTS

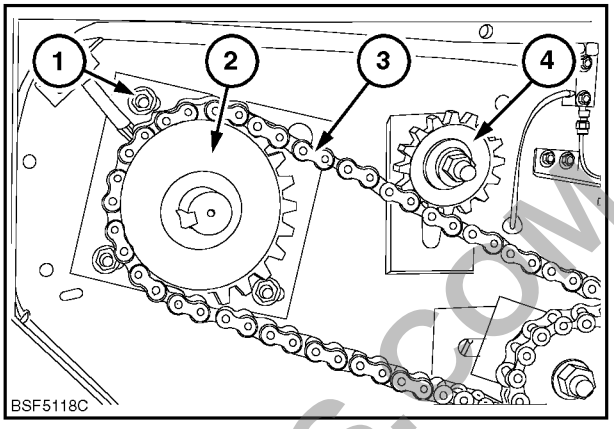
1. Special tool for pick up height setting
2. Height setting collar
3. Height adjustment setting holes
4. Pressure adjustment setting holes
5. Spring force setting collar
6. Spring
7. Setting adjustments slots for setting gauge
8. Cylinder shield

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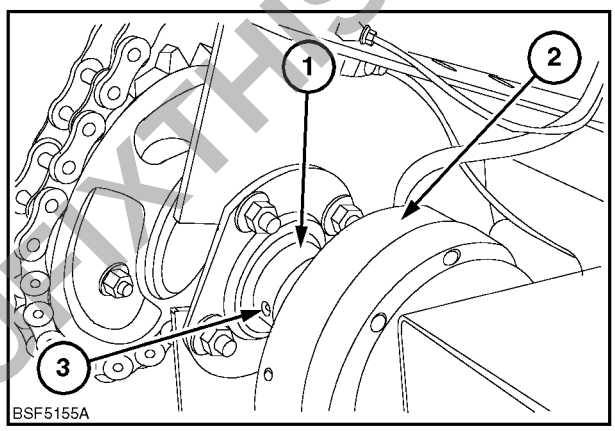
Reel drive system Right hand pivot bearing - Replace

1. Open the door over the drives on the right end of the pickup. Loosen the chain idler **(4)**. Remove the chain **(3)** attachment link. Take the chain off the drive sprocket **(2)** and move it out of the way. Remove the four bolts **(1)** in the bearing mounting plate.



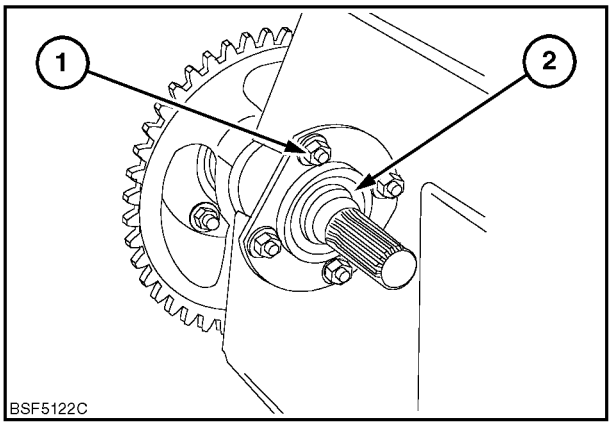
bsf5118c 1

2. Pull the whole shaft assembly, including the slip clutch **(2)** out through the holes in the pickup frame. Loosen the setscrew **(3)** and remove the locking collar **(1)**.



bsf5155a 2

3. Take out the four bolts **(1)** in the flangettes. Remove the bearing **(2)**.

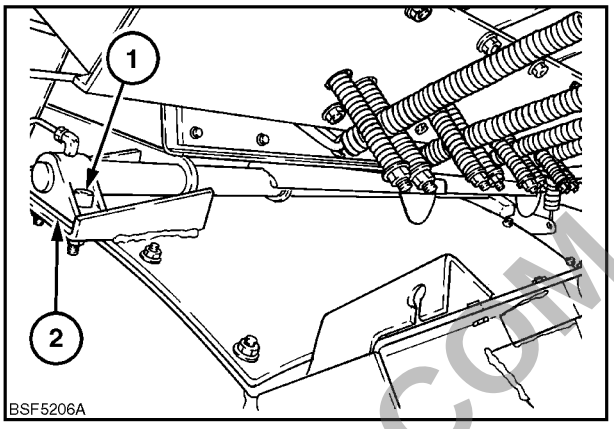


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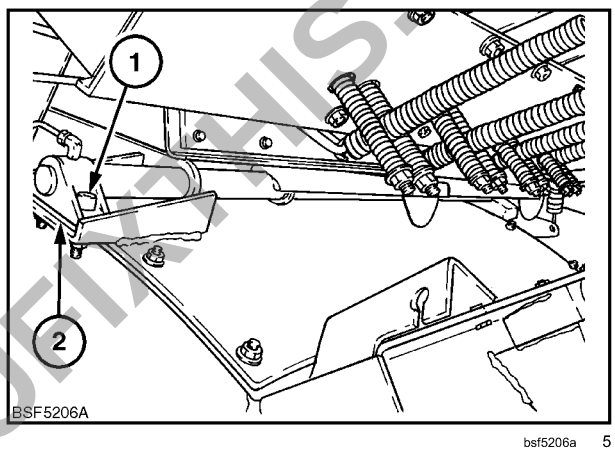
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4. Support the holding fingers and remove the four hex bolts and nuts **(1)** two from each side of the shaft. Remove the spacer plates **(2)** from the mountings. Lower the holding fingers to the ground. Inspect the holding fingers and support bushings for wear or bent fingers. Inspect the shaft, the twine tensioners and the slacker arms for damage or wear. Repair or replace as required.



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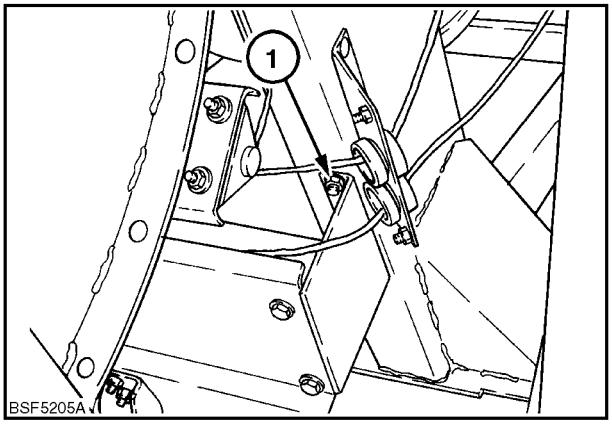
5. Place the holding fingers in position. Place the spacers **(2)** behind the bushings and install the connecting bolts and nuts **(1)** two from each side of the shaft.



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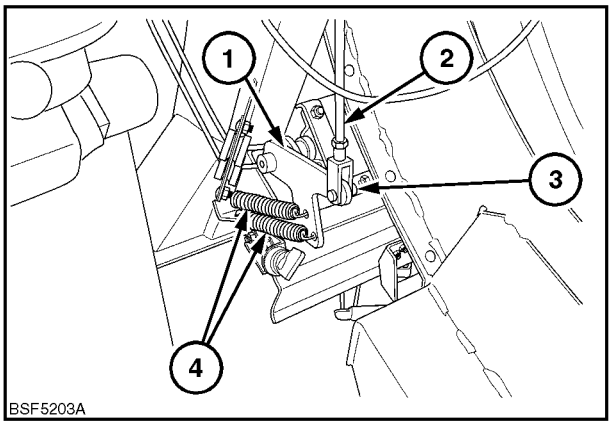
6. Position the twine tensioner assembly onto the baler and install the four mounting bolts **(1)** two on each side. Now restring the baling twine to the twine tensioners.

NOTE: *Inspect the position of both the twine tensioners and the holder fingers. The holder fingers must be centered in the opening of the charge chamber. The twine tensioners must be centered under the needles. If either is out of position, loosen the four mounting bolts **(1)** two on each side, and adjust as needed.*



bsf5205a 6

7. After everything is correctly positioned, install the two return springs **(4)** to the holding finger arm **(1)**. Connect linkage rod **(2)** to the holding finger arm **(1)**by reinstalling the cotter pin **(3)**.



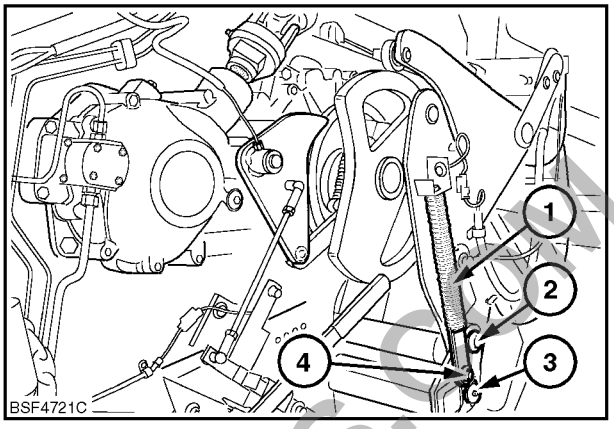
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Shaft - Remove

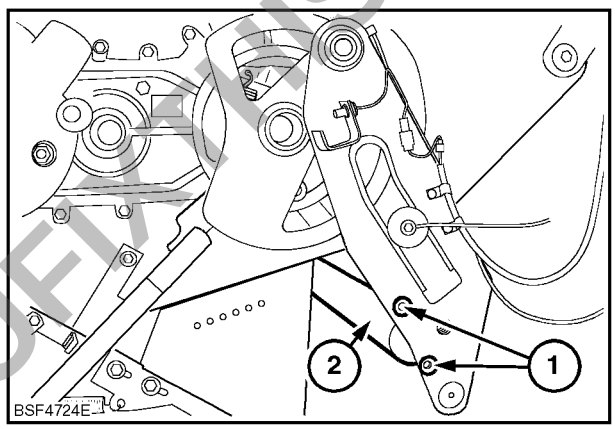
1. On the left side of the baler, remove the sensor rod and spring **(1)** by removing cotter pin **(4)**. Remove the stuffer finger bolt **(2)**. Remove the shearbolt **(3)**. On the right side of the baler, remove the stuffer finger bolt.Remove the bushings from both sides of the stuffer fingers and rest the stuffer fingers below.

NOTE: *Removal of the stuffer fingers is a two person job.*



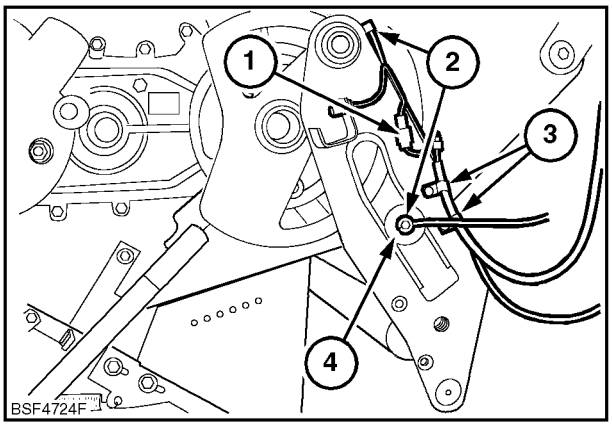
bsf4721c 1

2. Remove the four angle bar bolts **(1)** two on each side and remove the angle bar **(2)**.



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3. On the left side of the baler, remove oil lines **(2)** the sensor wire **(1)** and wire clamps **(3)** Remove the nut from the back of the stuffer arm bearing at **(4)**.

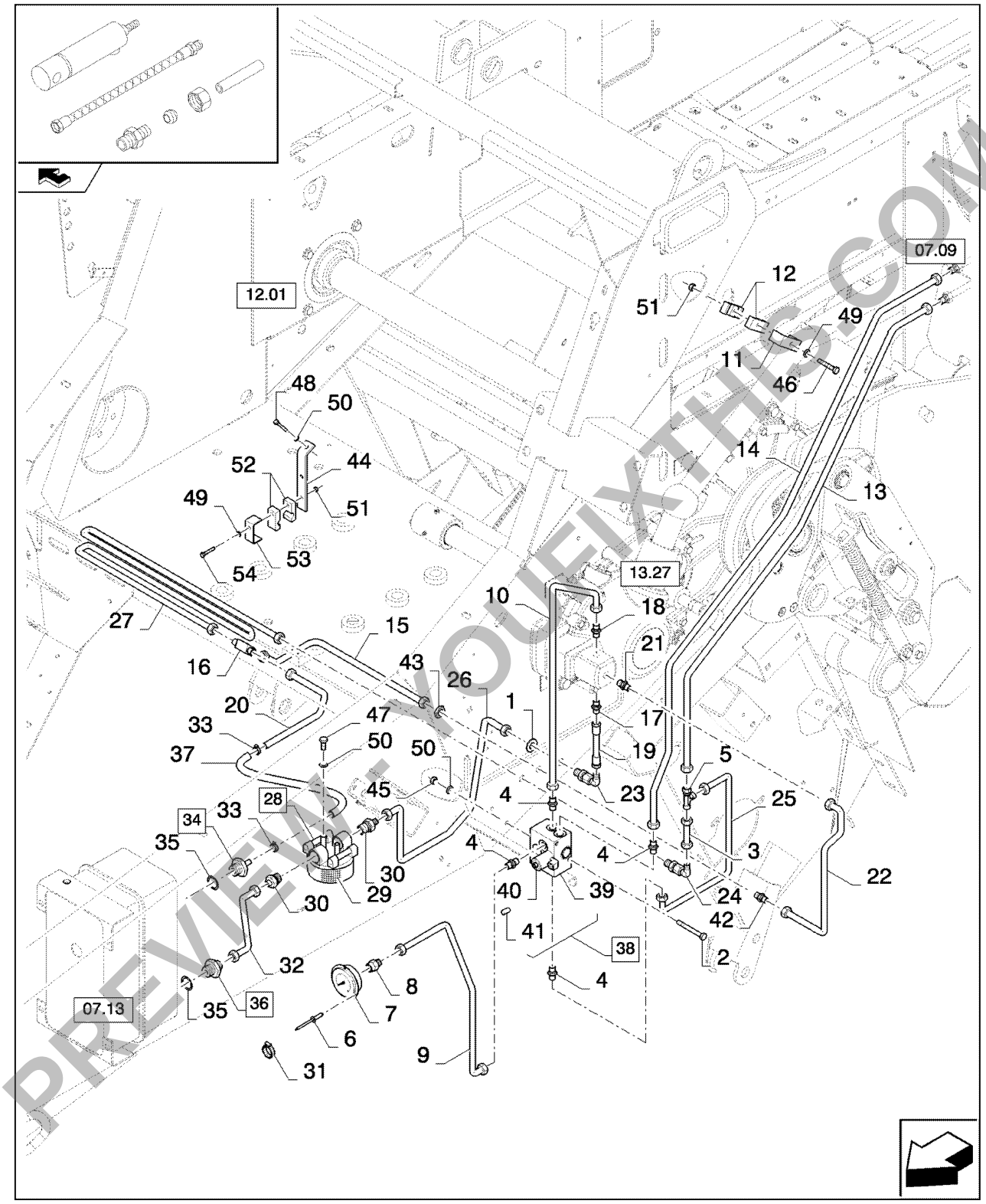


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Density system - Exploded view Pressure system front



DPSF 1

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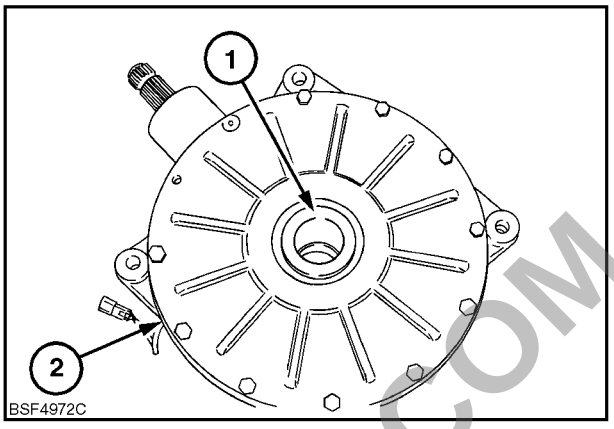
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9. Grease the lip of the seal **(1)** for the clutch hub. Press the seal in position in the gearbox cover. Install the speed sensor **(2)**. Screw it in until it hits the gear. Back the sensor out one turn. Tighten the jam nut. Install any plugs that were removed.

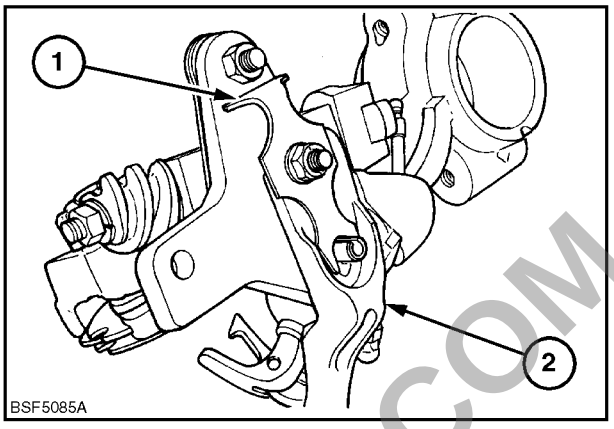


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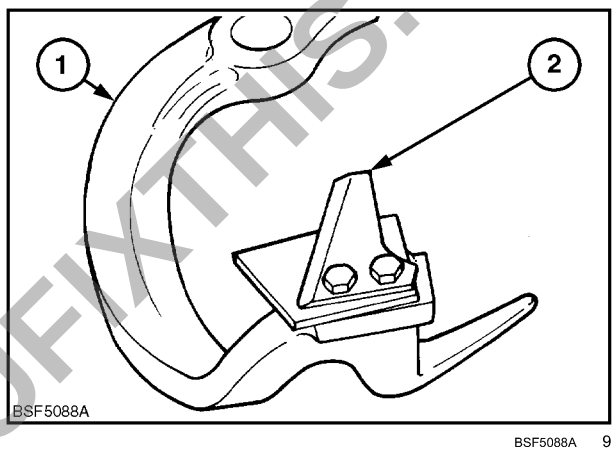
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8. Install billhook cam **(1)** and spring **(2)** with nylon locknut. Leave nut hand tight. Refer to the knotter adjustment procedure. Rotate the billhook roller so it is under the cam.



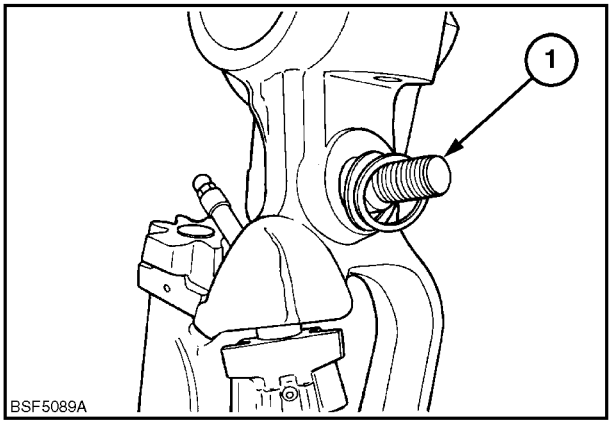
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9. Replace knife **(1)** on knife arm **(2)**.



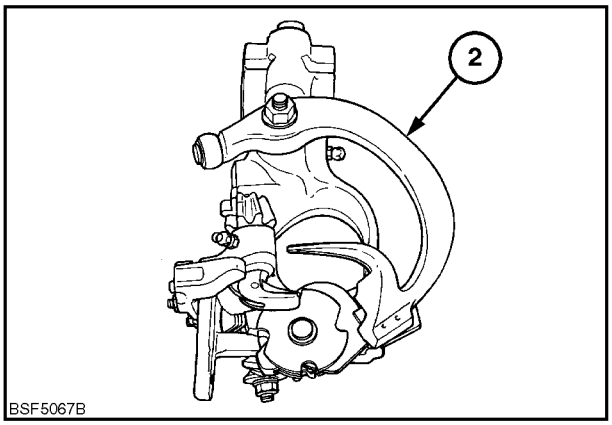
BSF5088A 9

10. Install knife arm shaft **(1)**.



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11. Place shims on the backside of the knotter in front of the knife arm **(2)**. The shims will prevent knife arm from hitting the twine disc.



BSF5067B 11

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