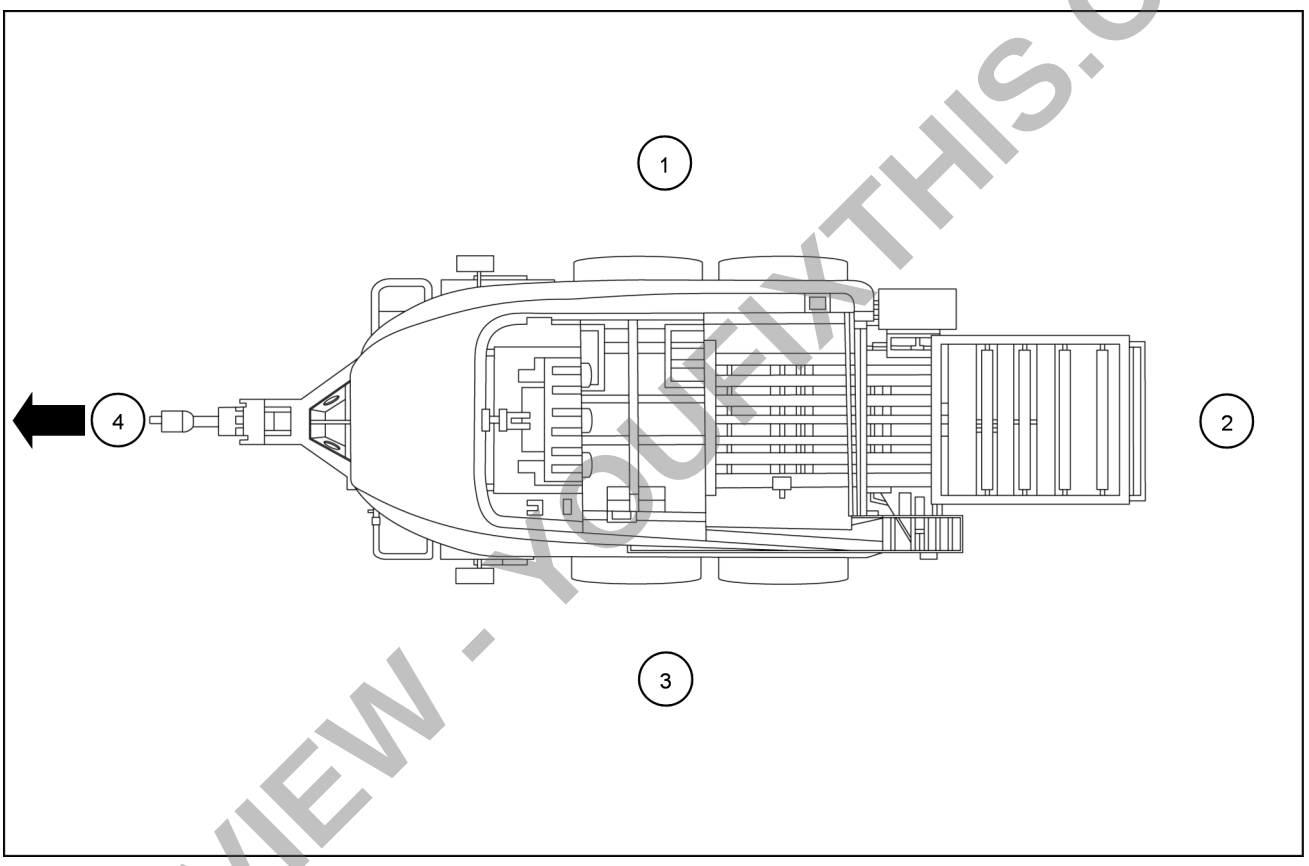
Product identification

BigBaler 230P	NA
BigBaler 230S	NA
BigBaler 330P	NA
BigBaler 330R	NA
BigBaler 330S	NA
BigBaler 340R	NA
BigBaler 340S	NA

NOTE: *Throughout this service manual, references to right-hand and left-hand sides of the machine are determined by standing at the rear of the machine and facing the normal direction of travel.*

The following overhead view illustration is a general representation of the machine. The illustration indicates the sides, front, and rear orientations of the machine as referred to throughout this manual relevant to the normal direction of travel during working operations.



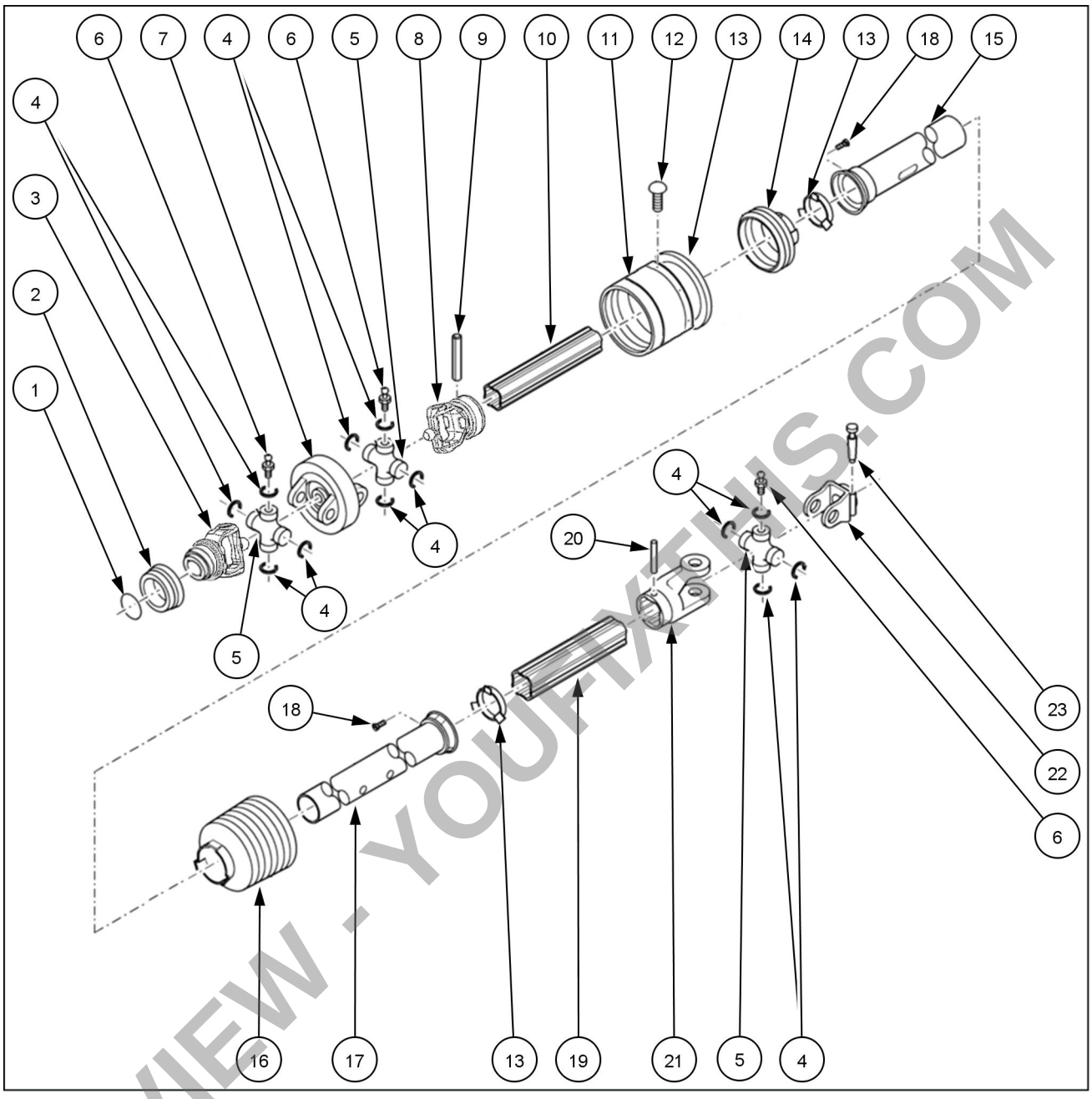
ZEIL15BB00116FA 1

NOTE: *The arrow indicates the machine direction of travel during normal working operations.*

(1) Right-hand side of the machine
(2) Rear of the machine
(3) Left-hand side of the machine
(4) Front of the machine

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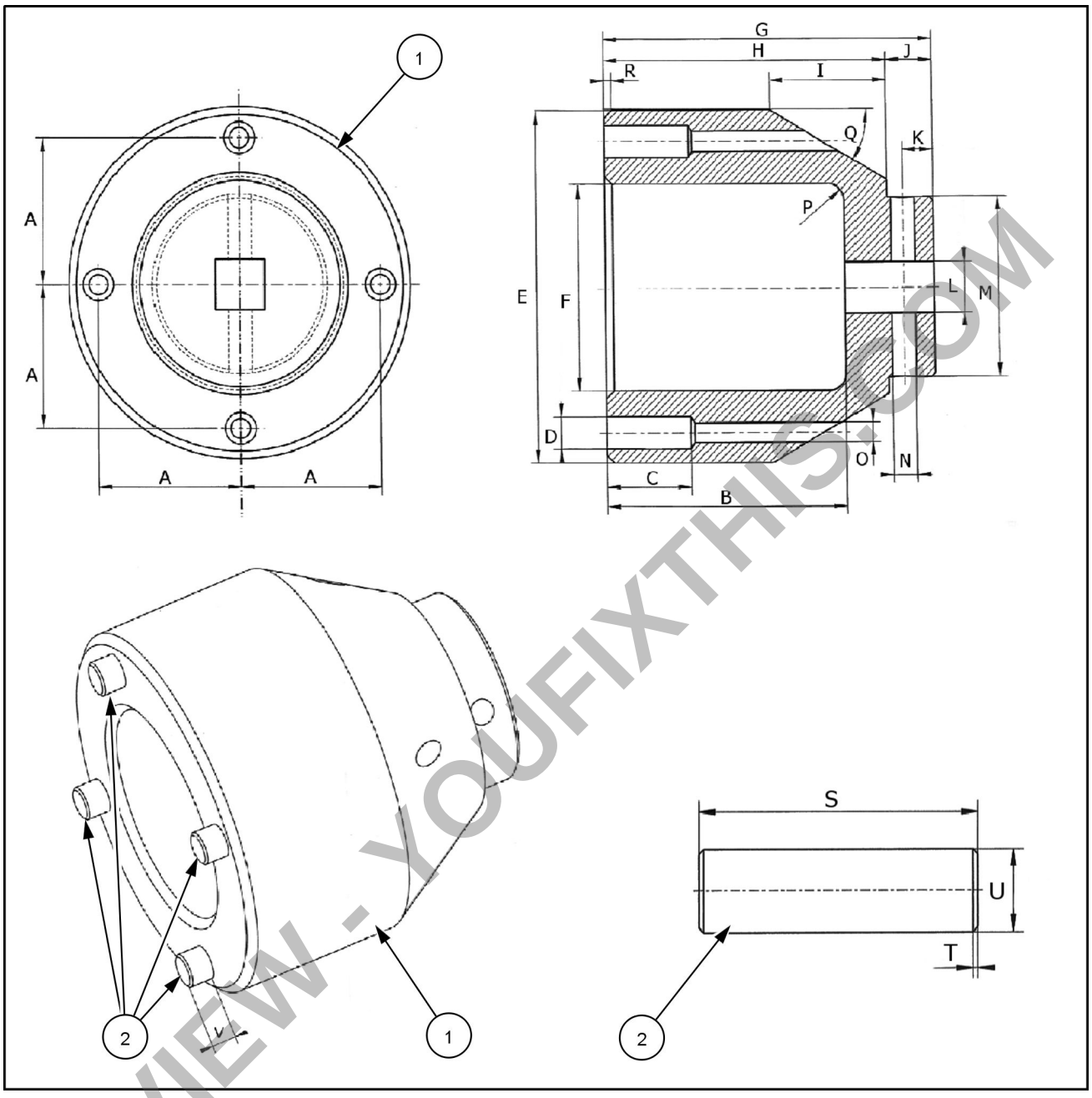
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Gearbox - Special tools

• 4-Knotter machines

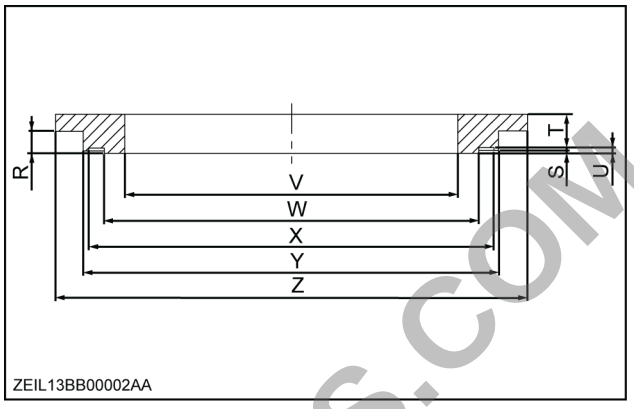
Tool A (sealing disc)

Lengths:

- R = **8 mm** (**0.315 in**)
- S = **1 mm** (**0.039 in**)
- T = **13 mm** (**0.512 in**)
- U = **2 mm** (**0.079 in**)

Diameters:

- V = **120.2 mm** (**4.732 in**)
- W = **135 mm** (**5.315 in**)
- X = **146 mm** (**5.748 in**)
- Y = **149.8 mm** (**5.898 in**)
- Z = **170 mm** (**6.693 in**)



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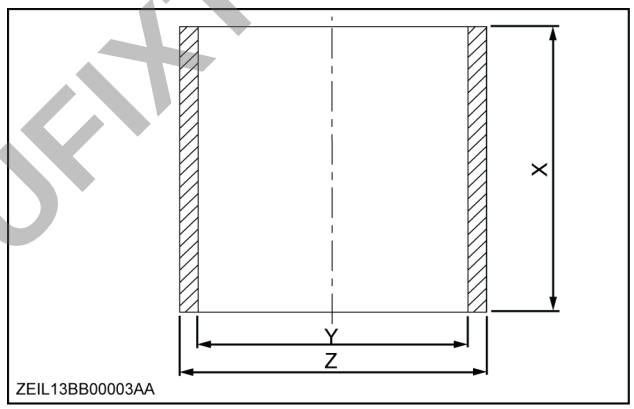
Tool B (tube)

Length:

- X = **100 mm** (**3.937 in**)

Diameters:

- Y = **120.2 mm** (**4.732 in**)
- Z = **130 mm** (**5.118 in**)



ZEIL13BB00003AA 2

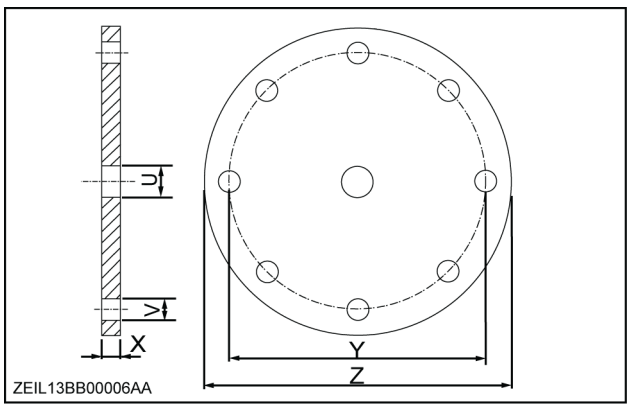
Tool C (disc)

Lengths:

- X = **15 mm** (**0.591 in**)

Diameters:

- U = **21 mm** (**0.827 in**)
- V = **13 mm** (**0.512 in**)
- Y = **208 mm** (**8.189 in**)
- Z = **230 mm** (**9.055 in**)



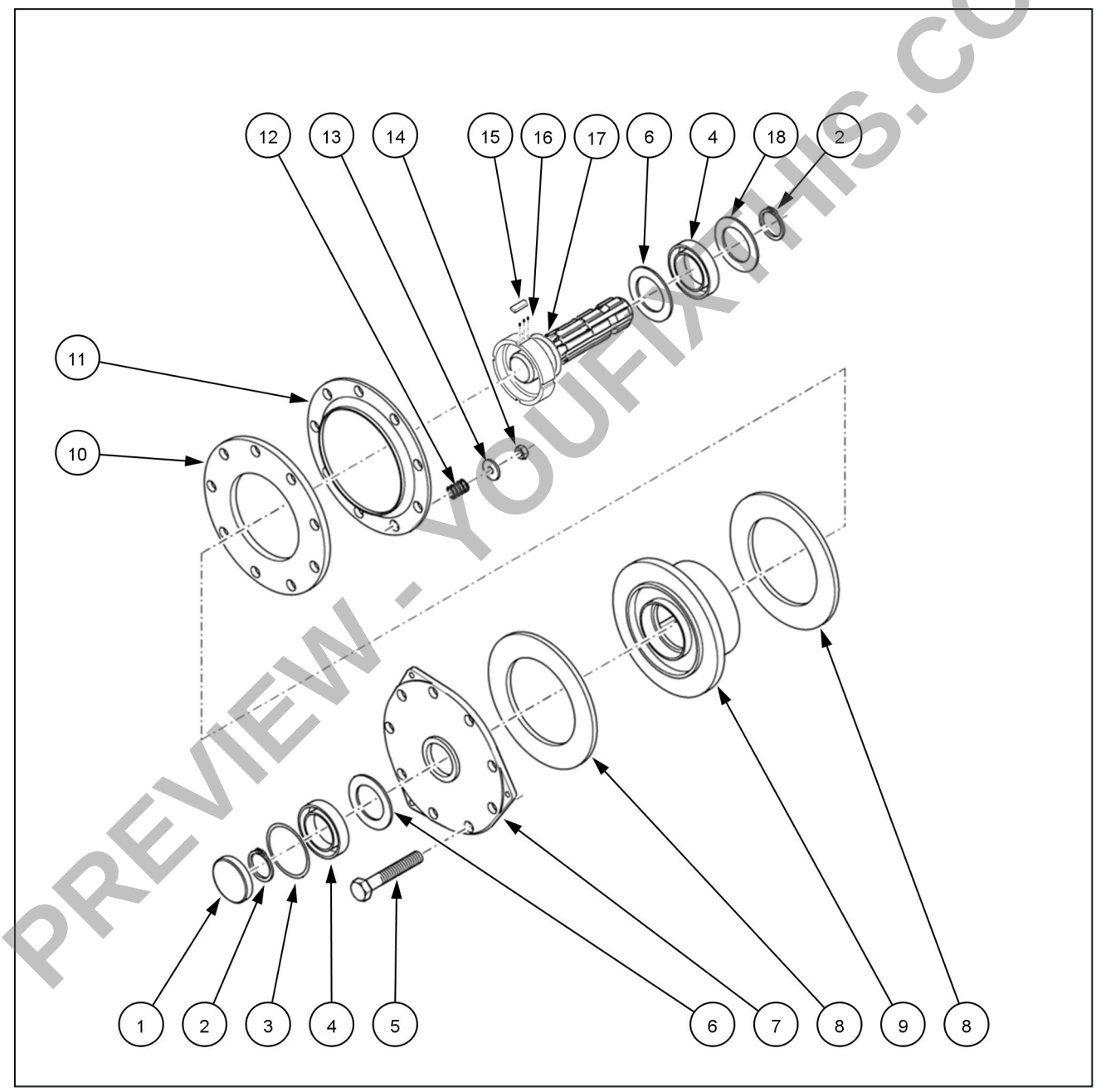
ZEIL13BB00006AA 3

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Main drive slip clutch - Exploded view

1. Nylon ring
2. Retaining ring
3. Cover
4. Ball bearing
5. Bolt M10 x 150
6. Protection ring 50.5 x 74.7 x 1.5
7. Flange
8. Lining
9. Hub
10. Drive plate
11. Thrust flange
12. Spring
13. Washer 13 x 32
14. Lock nut M10
15. Key
16. Spring
17. Hub and spline (1-3/4 - 6 splines)
18. Washer 50.5 x 44.7 x 1.5

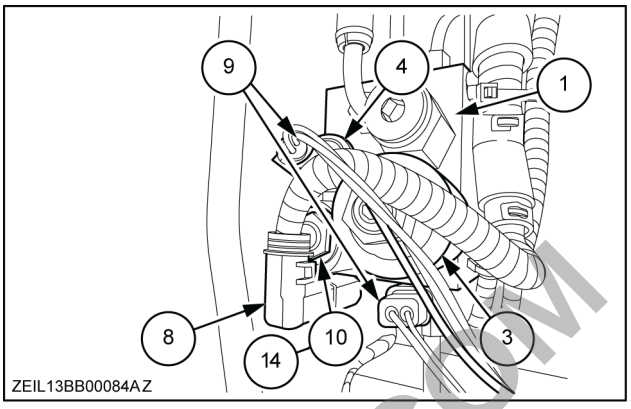


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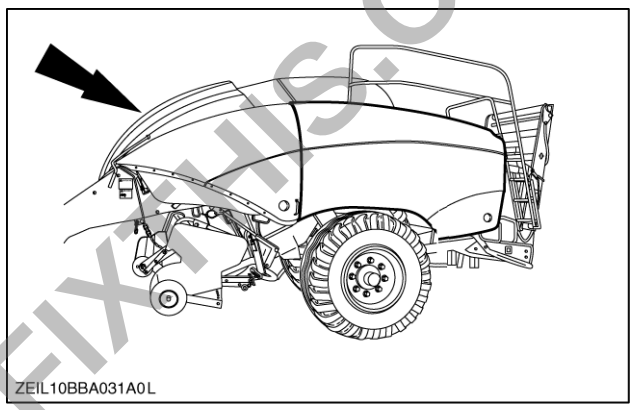
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5. Install the connectors **(9)**.
6. Incase of the pickup stop valve, install the connector **(8)**.



ZEIL13BB00084AZ 3

7. Close the flywheel shield.



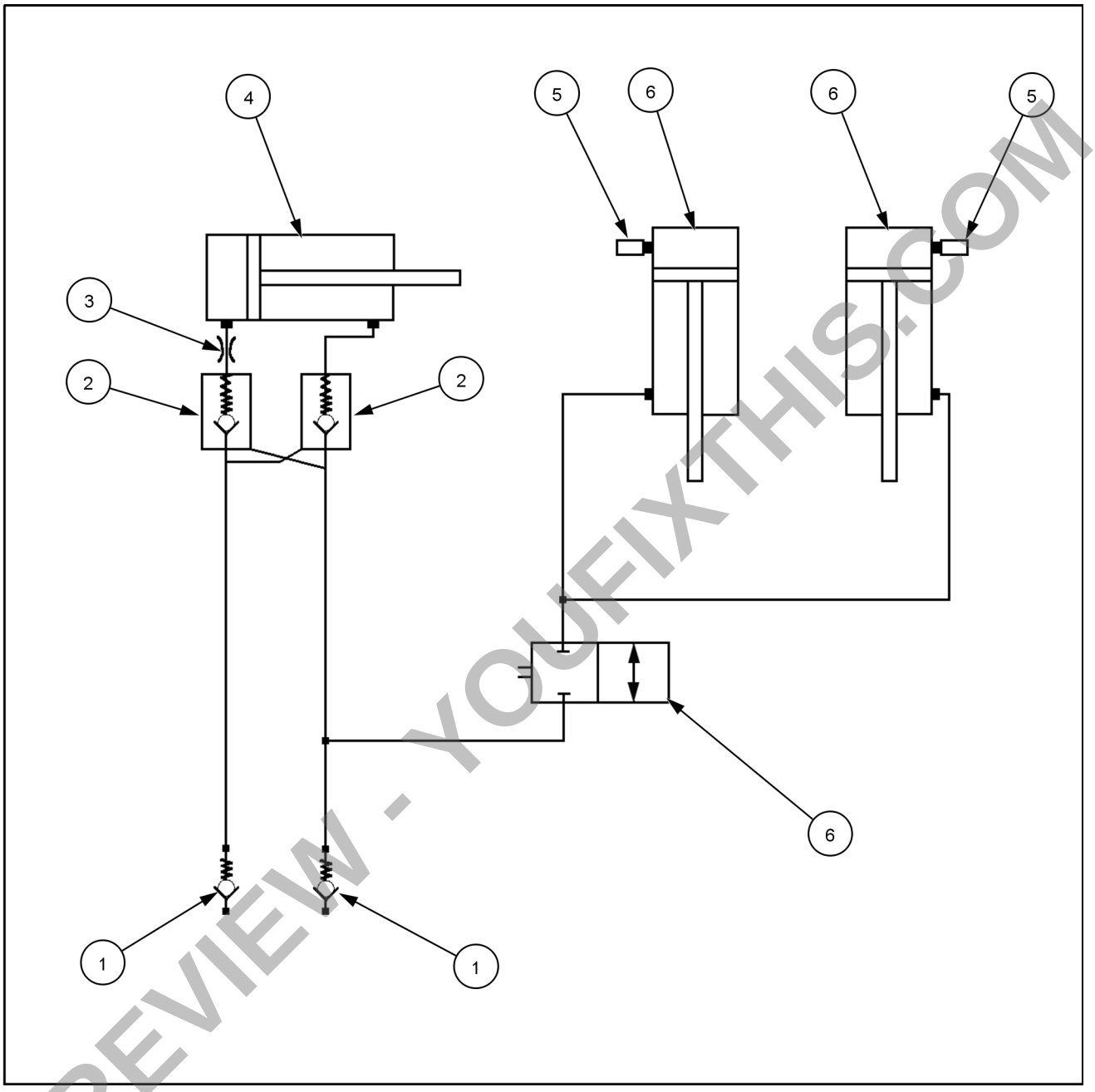
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Knife positioning circuit - Hydraulic schema

BigBaler 330R	NA
BigBaler 340R	NA



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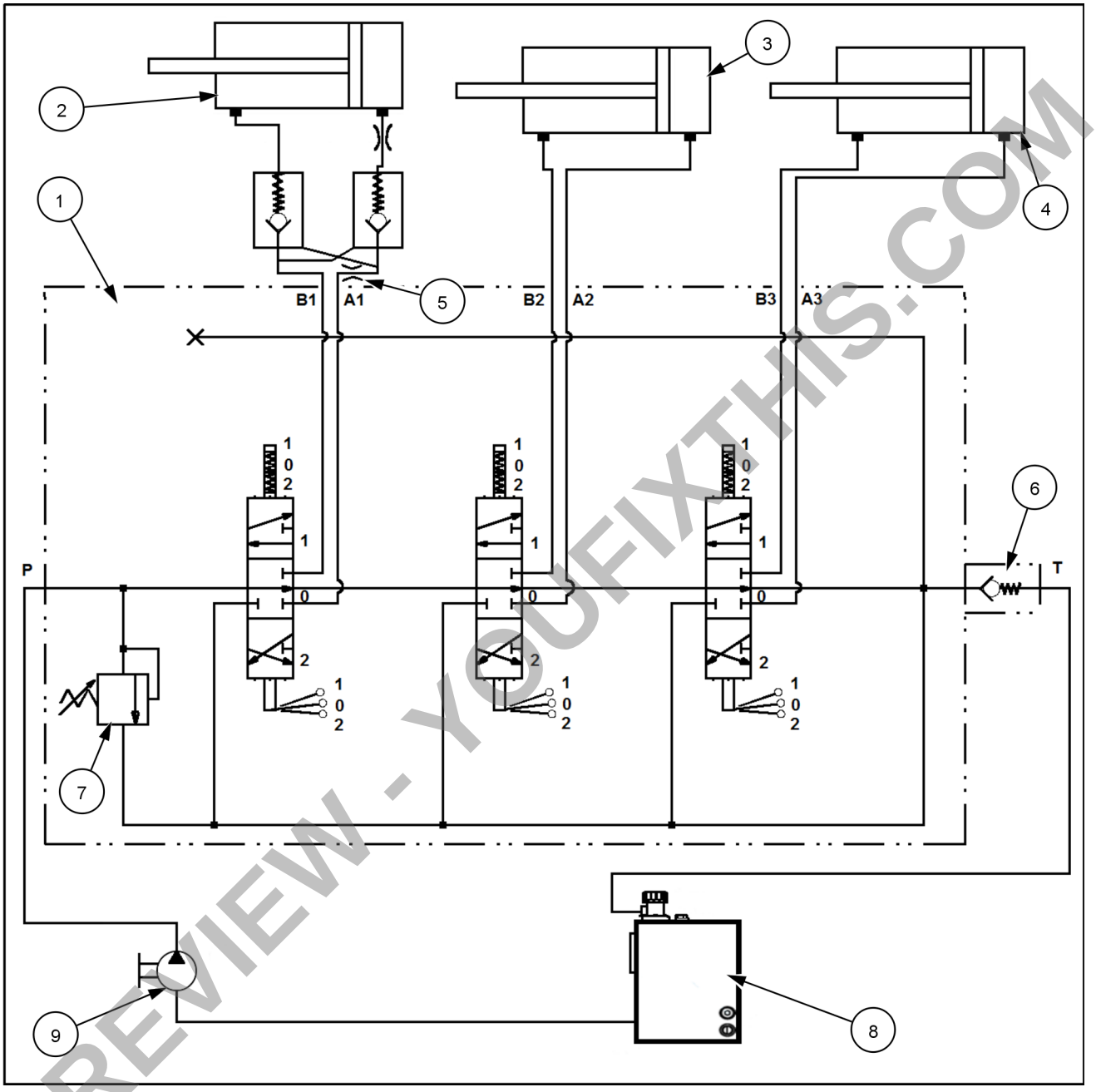
1. Quick-coupler
2. Check valve
3. Orifice (**0.8 mm** (**0.03 in**))
4. Hydraulic cylinder (knives engage/retract)
5. Breather
6. Hydraulic cylinder (knife drawer frame up/down)
7. Lock-out valve

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Bale eject circuit - Hydraulic schema - Standard Bale eject™, partial bale eject and bale chute

Large BigBaler series NA	NA



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1. Hydraulic control valve
2. Hydraulic cylinder (bale chute)
3. Hydraulic cylinder (**Bale-Eject™**)
4. Hydraulic cylinder (partial bale eject)
5. Orifice (**0.5 mm** (**0.02 in**))
6. Check valve
7. Relief valve (**150 bar** (**2175 psi**)
8. Hydraulic reservoir on tractor
9. Hydraulic pump on tractor

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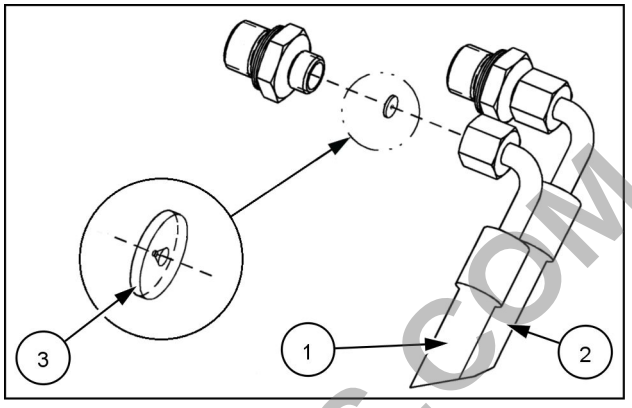
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Hydraulic connections - Detailed view - Orifice

Large BigBaler series NA	NA

1. Hydraulic hose from port A1 on the hydraulic control valve.
2. Hydraulic hose from port B1 on the hydraulic control valve.
3. Orifice (**0.5 mm** (**0.02 in**))

NOTE: *For port references refer to* ***Control valve - Hydraulic symbol (35.570)*** *and* ***Control valve - Hydraulic symbol (35.570)****.*



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Electrical systems - 55

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[55.100] Harnesses and connectors 55.2

[55.629] Pressing/Bale formation electrical control 55.3

[55.640] Electronic modules 55.4

[55.633] Baler feeding control 55.5

[55.629] Pressing/Bale formation electrical control 55.6

[55.433] Twine and net cutting and tying or wrapping 55.7

[55.408] Warning indicators, alarms, and instruments 55.8

[55.DTC] FAULT CODES 55.9

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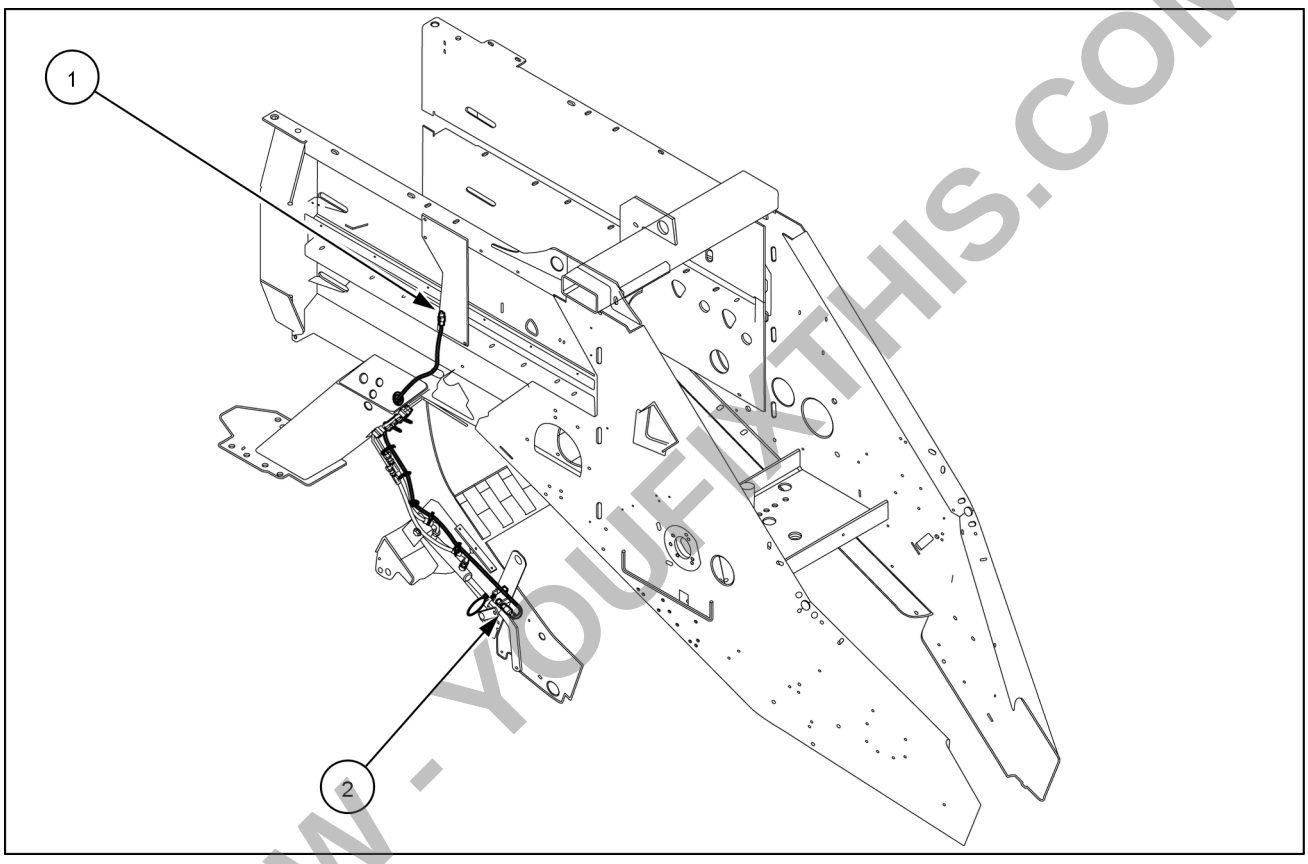
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Harnesses and connectors - Overview

Large BigBaler series NA	NA

Status cutter (SC)

Item	Connector number	Description
1	**X-125**	Interconnect - cutter status
2	**X-109**	Status cutter sensor

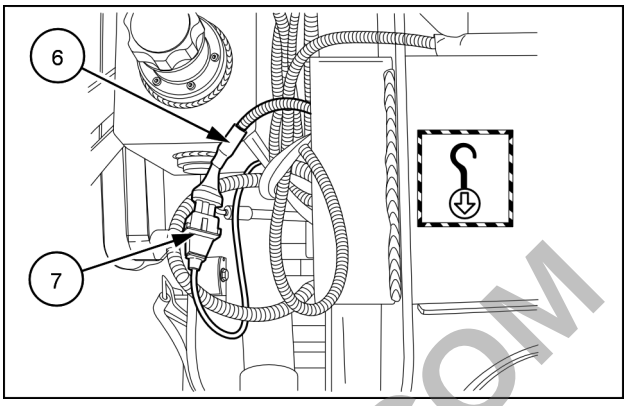


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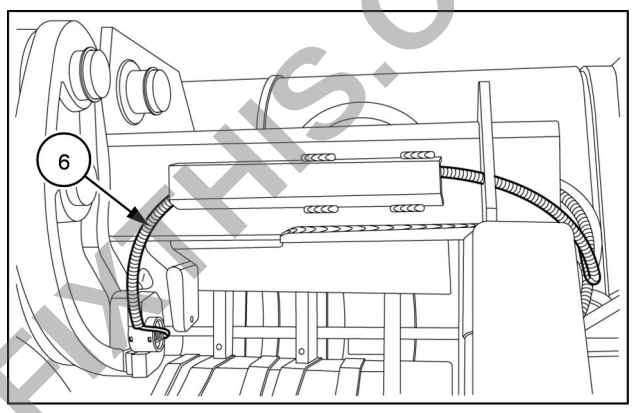
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5. At the left-hand side, pull the wire harness **(6)** of the plunger load sensor out of the frame cross beam above the main gearbox.
6. Disconnect the connector **(7)**.



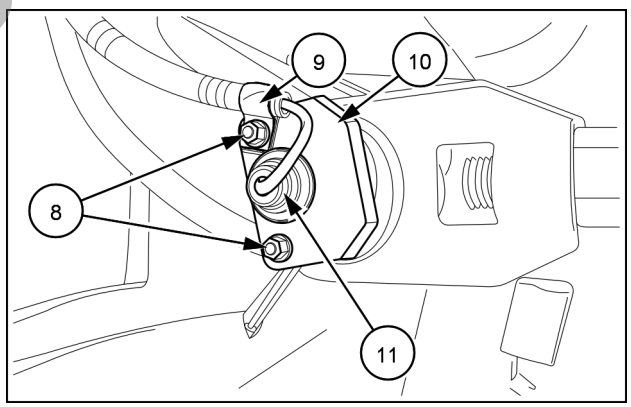
ZEIL13BB00146AA 4

7. Pull out the wire harness **(6)** from the cover on the frame cross beam.



ZEIL13BB00147AA 5

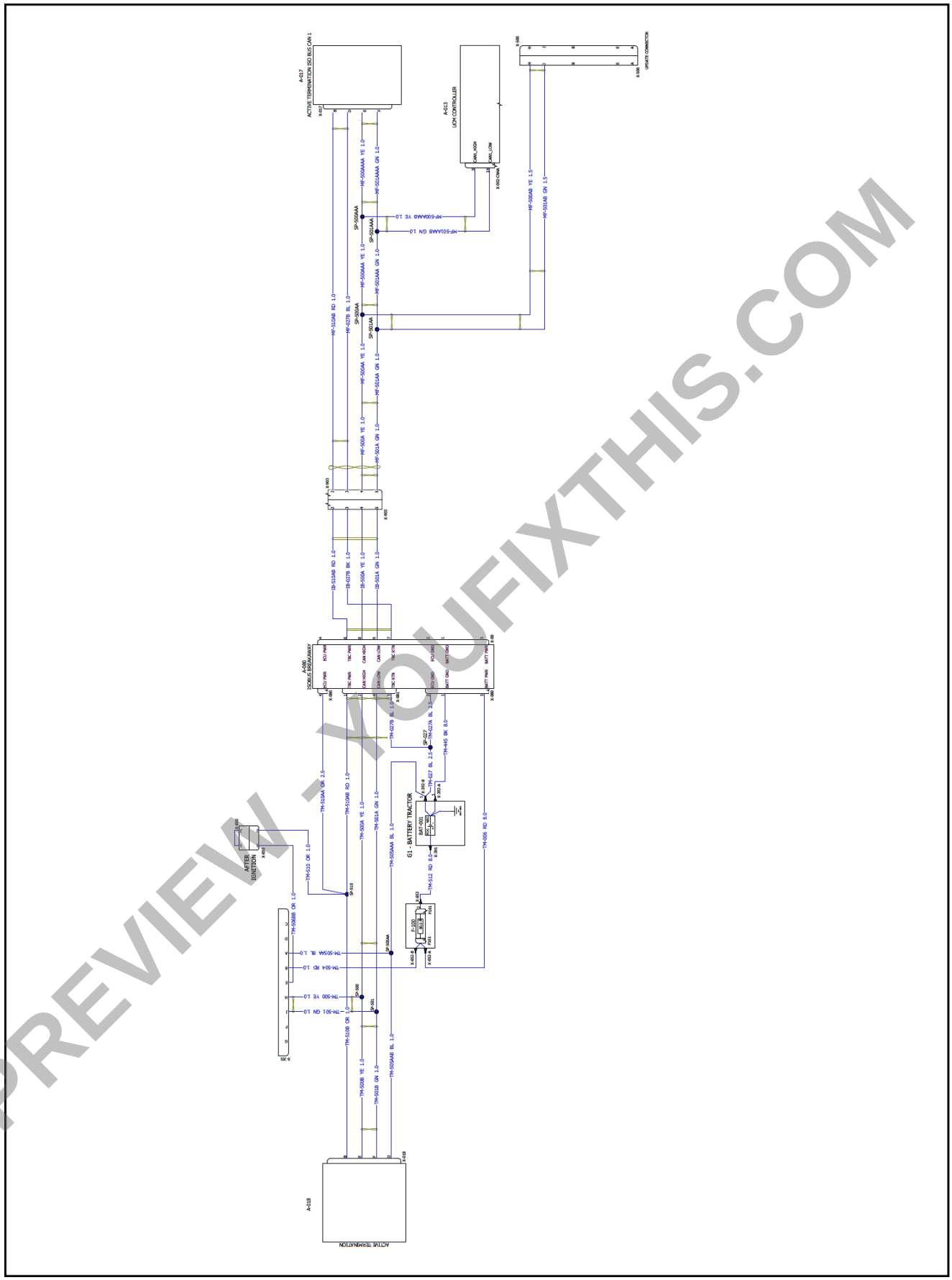
8. Remove the hardware **(8)**, the clamp **(9)**, the fixation plate **(10)** and the plunger load sensor **(11)**.



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Baler feeding control - 633

BigBaler 230P Packer Cutter [4137 -], BigBaler 230S Standard [4137 -], BigBaler 330P Packer Cutter [4137 -], BigBaler 330R Rotor Cutter [4137 -], BigBaler 330S Standard [4137 -], BigBaler 340R Rotor Cutter [4137 -], BigBaler 340S Standard [4137 -]

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Electrical systems - 55

Pressing/Bale formation electrical control - 629

BigBaler 230P Packer Cutter [4137 -], BigBaler 230S Standard [4137 -], BigBaler 330P Packer Cutter [4137 -], BigBaler 330R Rotor Cutter [4137 -], BigBaler 330S Standard [4137 -], BigBaler 340R Rotor Cutter [4137 -], BigBaler 340S Standard [4137 -]

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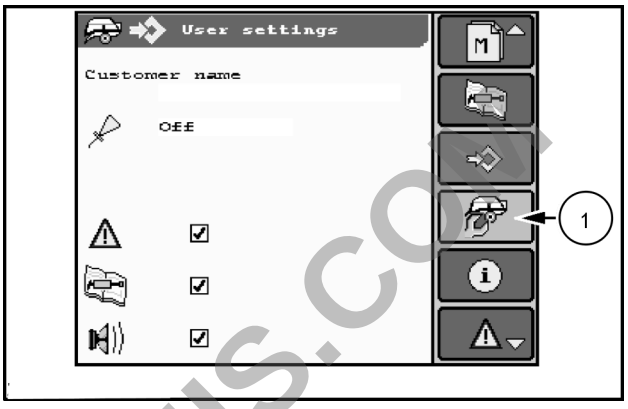
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Instrument cluster - Service instruction - Dealer mode access

Large BigBaler series NA	NA

Machine setup

1. Select the “Machine setup” icon **(1)** to enter its sub-menu.



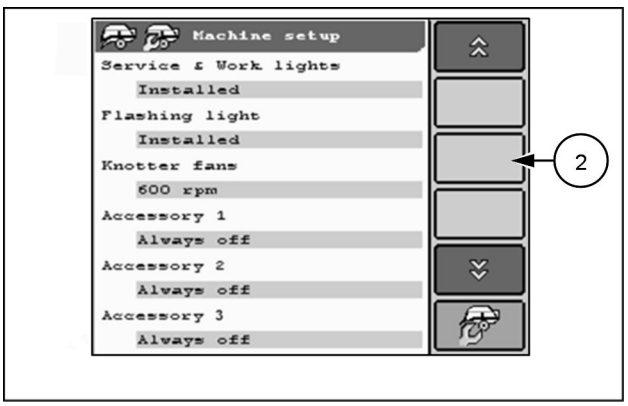
ZEIL10BB0586A0Z 1

2. Select the “Machine setup” icon **(1)** again.



ZEIL10BB00727AZ 2

3. To activate the dealer mode, press the button **(2)** for **10 s**.



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Electrical systems - 55

FAULT CODES - DTC

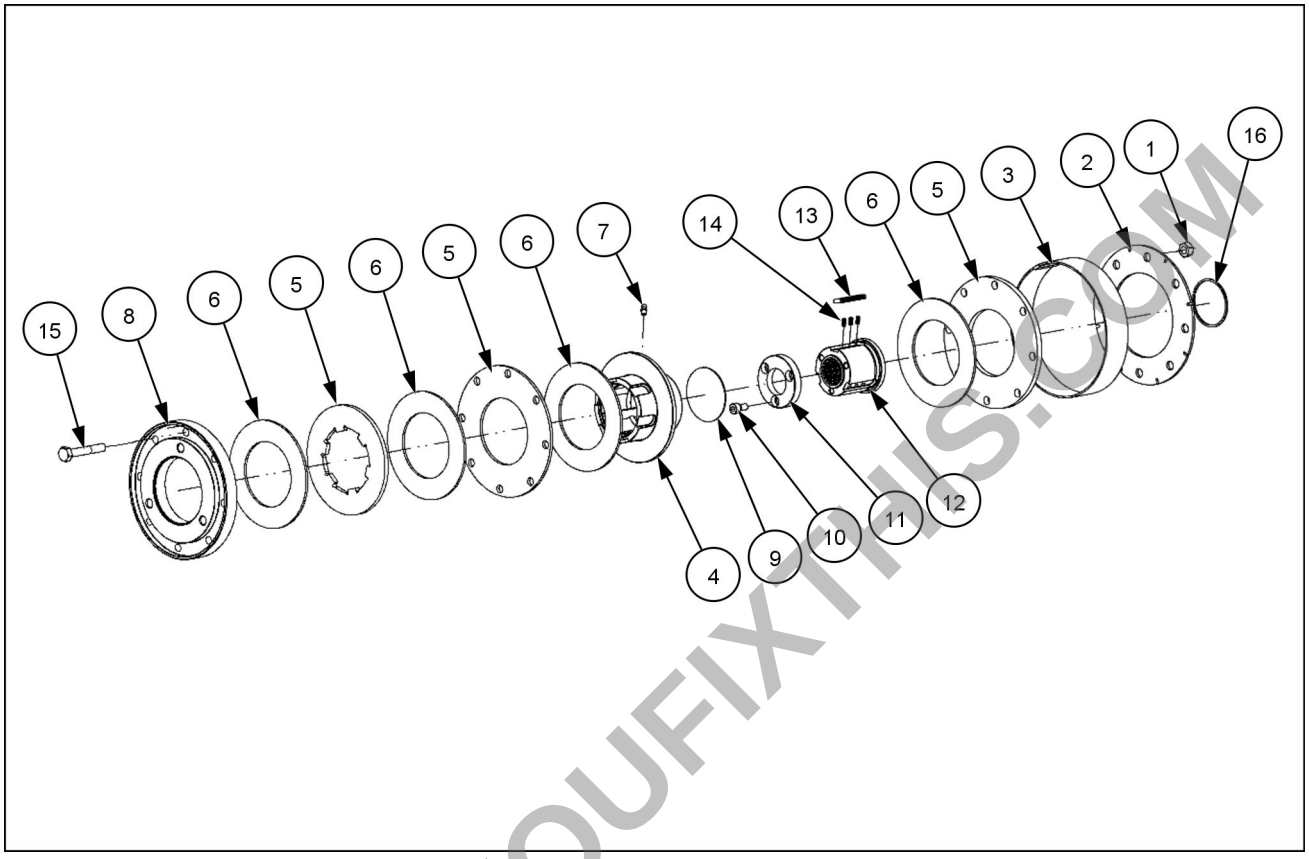
BigBaler 230P Packer Cutter [4137 -], BigBaler 230S Standard [4137 -], BigBaler 330P Packer Cutter [4137 -], BigBaler 330R Rotor Cutter [4137 -], BigBaler 330S Standard [4137 -], BigBaler 340R Rotor Cutter [4137 -], BigBaler 340S Standard [4137 -]

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Clutch - Exploded view

Large BigBaler series NA	NA



ZEIL14BB90003FZ 1

1. Lock nut M10
2. Cover plate
3. Outer band
4. Clutch hub
5. Drive plate
6. Friction disk
7. Grease fitting
8. Clutch outer flange
9. Cover plate
10. Hex socket head screws
11. One-way clutch flange
12. One-way clutch shaft
13. Pawl
14. Spring
15. Bolt M10 x 65
16. Ring

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Rotor - Remove

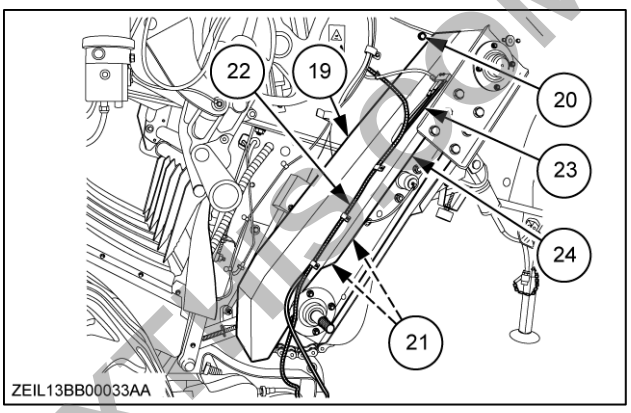
BigBaler 330R	NA
BigBaler 340R	NA

Prior operation:
Remove the pickup, refer to **Pickup - Remove (60.220)**.

NOTE: *For rotor details, refer to " **Rotor - Exploded view (60.260)**".*

On the right-hand side:

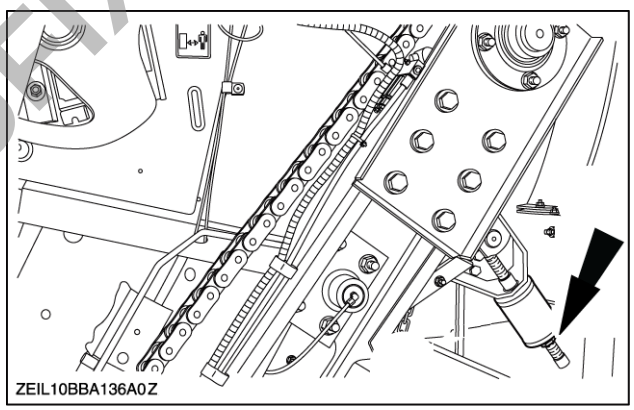
1. Remove the hardware **(20)** and **(21)**.
2. Remove the guard **(19)**.
3. Remove the wiring harness **(22)** and the grease lines **(23)**.



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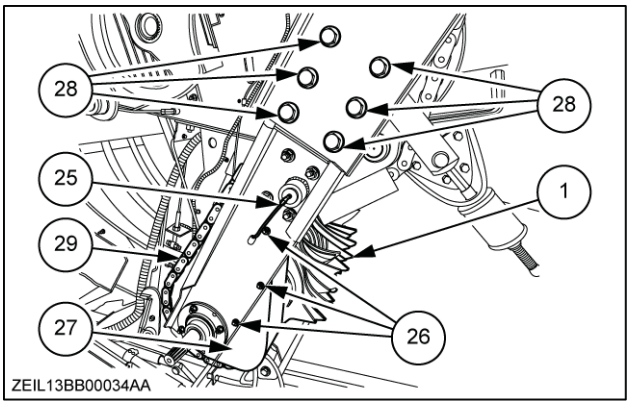
4. Remove the tension from the rotor drive chain.

NOTE: *Refer to the Operator's Manual.*



ZEIL10BBA136A0Z 2

5. Remove the grease line **(25)**.
6. Remove the hardware **(26)**.
7. Remove the guard **(27)**.
8. Remove the hardware **(28)**.
9. Remove the rotor drive chain **(29)**.



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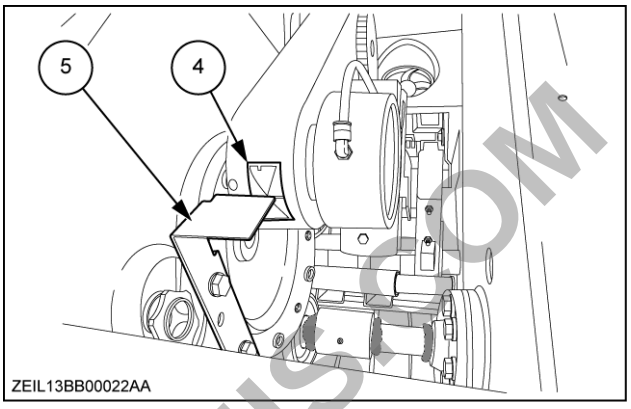
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Drive system - Timing check - Adjust

Large BigBaler series NA	NA

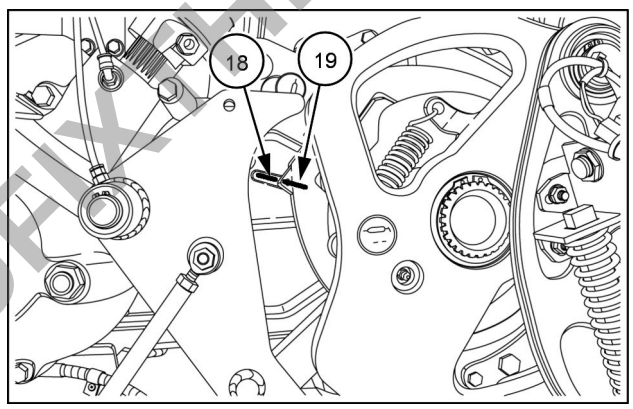
Timing check

1. Turn the flywheel until the plunger timing marks **(4)** and **(5)** align. If there are no marks, see the Chapter “Plunger timing” further on.



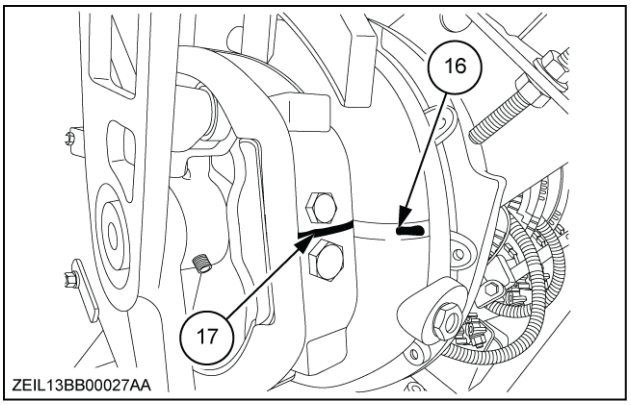
ZEIL13BB00022AA 1

2. If the plunger marks align, check if the stuffer gearbox timing marks **(18)** and **(19)** align. If not, see the Chapter “Stuffer to plunger timing” further on.



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3. If the plunger and stuffer marks align, check if the knotter gearbox timing marks **(16)** and **(17)** align. If not, see the Chapter “Needles to plunger timing” further on.
4. If all the marks align, the machine is timed correctly. If this is not the case, go through the following steps.



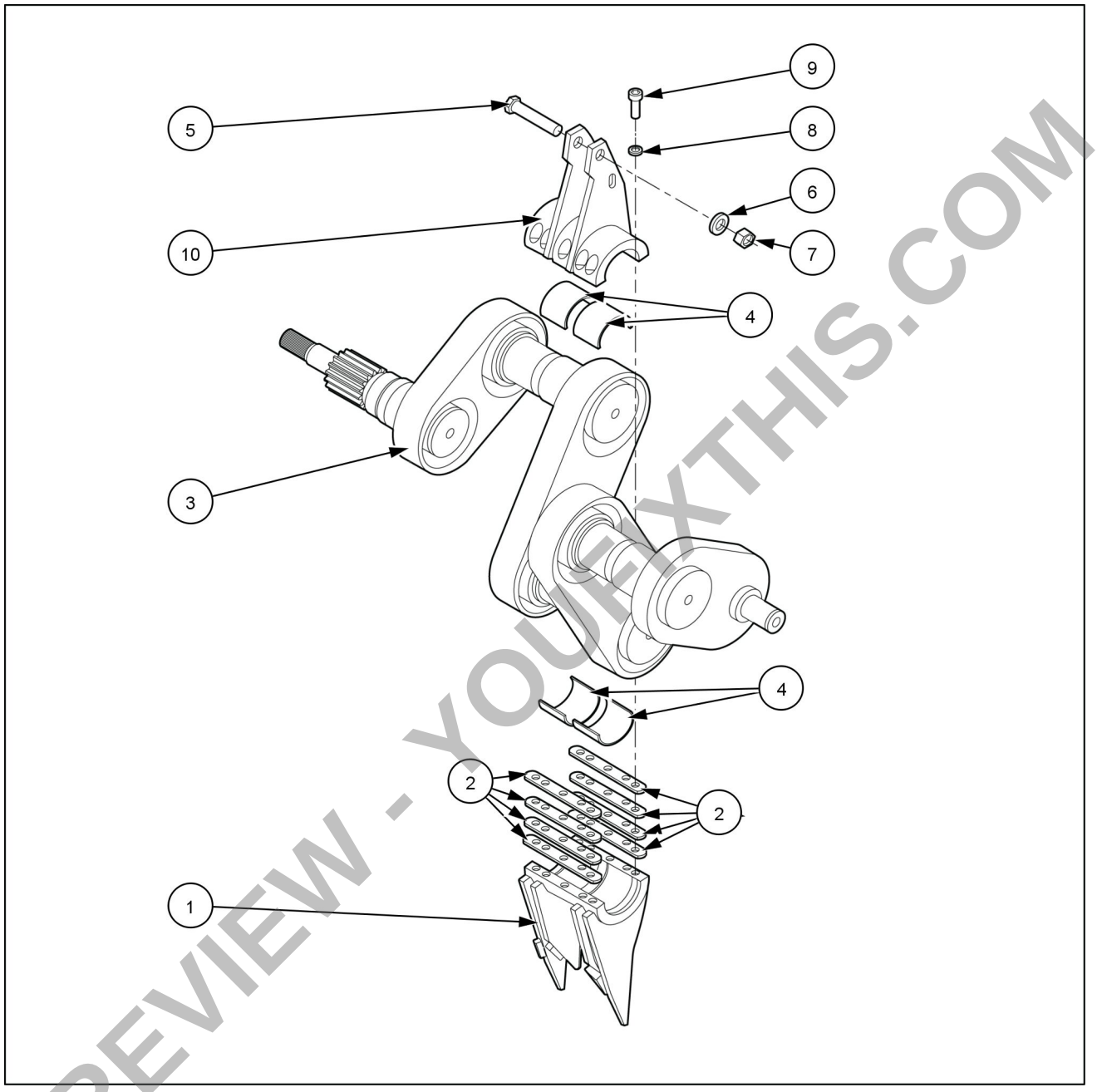
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Packer fork - Exploded view

BigBaler 230P	NA
BigBaler 330P	NA



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1. Fork
2. Shims
3. Crankshaft
4. Bearing shell
5. Bolt M16x100
6. Washer M16
7. Lock nut M16
8. Spring washer
9. Hex socket head screw
10. Fork head

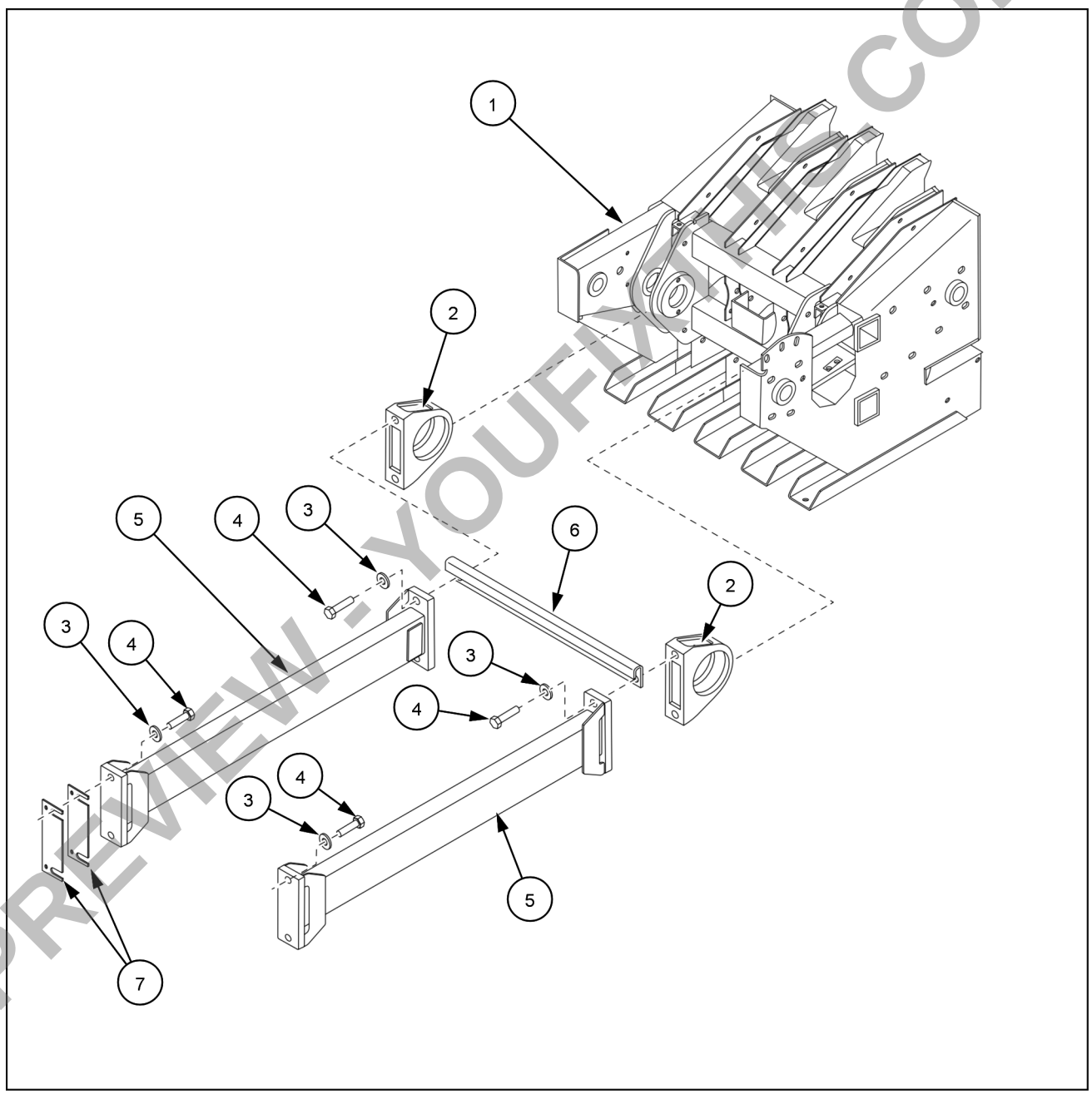
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Plunger and connecting rod - Exploded view

BigBaler 230P Packer Cutter [4137 -]	NA
BigBaler 230S Standard [4137 -]	NA
BigBaler 330P Packer Cutter [4137 -]	NA
BigBaler 330R Rotor Cutter [4137 -]	NA
BigBaler 330S Standard [4137 -]	NA

1. Plunger
2. Bearing housing
3. Washer
4. Bolt (M14 x 55)
5. Connecting rod
6. Bar
7. Shim



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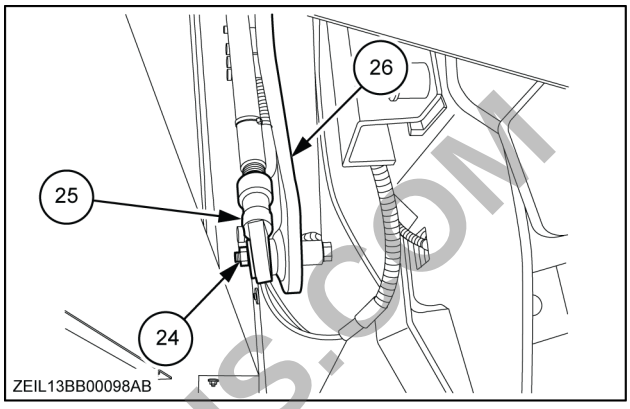
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Knotter frame - Remove

Large BigBaler series NA	NA

1. Cut and remove the twines from the knotter.
2. Remove the hardware **(24)** and the connecting rod **(25)** from the needle yoke **(26)**.

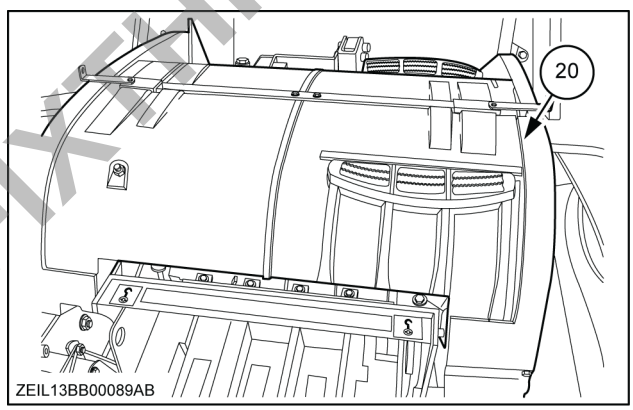
NOTE: *If it is difficult to remove the connecting rod **(25)**, loosen the bolts of the twine box.*



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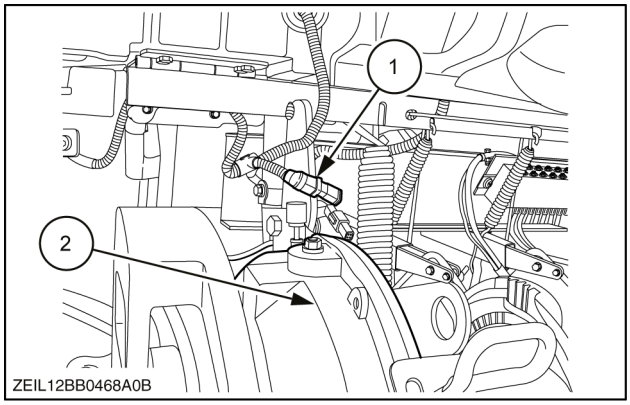
3. Remove the knotter shielding **(20)**.

NOTE: *If service lights are installed, disconnect the connector from inside the knotter shielding **(20)**.*



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4. Disconnect the connector **(1)** from the sensor of the knotter gearbox **(2)**.



ZEIL12BB0468A0B 3

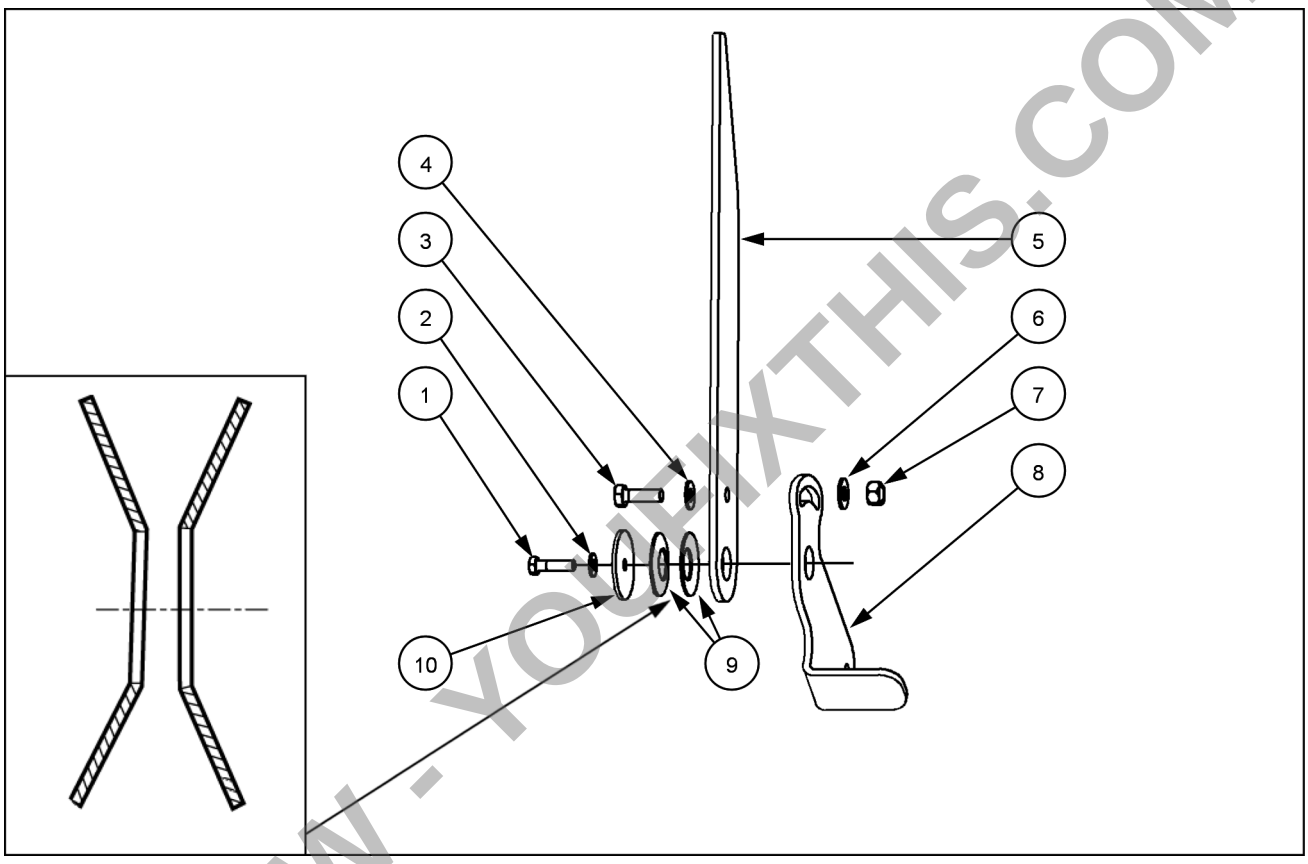
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Trip arm - Exploded view - Lock

BigBaler 230P	NA
BigBaler 230S	NA

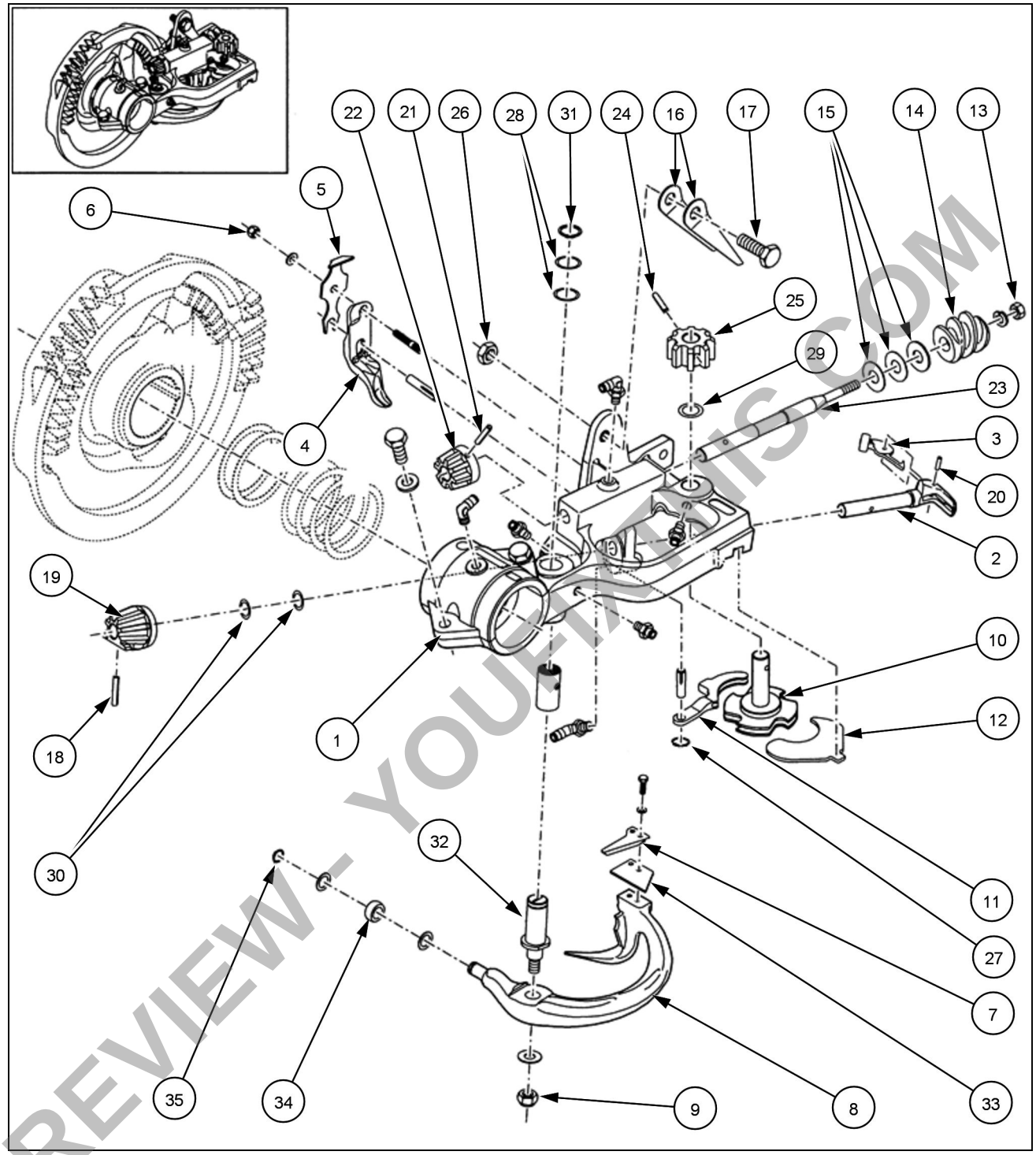
1 Bolt M8 x 30
2 Lock washer M8 x 18
3 Bolt M10 x 30
4 Lock washer M10 x 22
5 Lever
6 Lock washer 11 x 24
7 Nut M10
8 Support
9 Spring washer 25 x 50
10 Washer 9 x 55



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