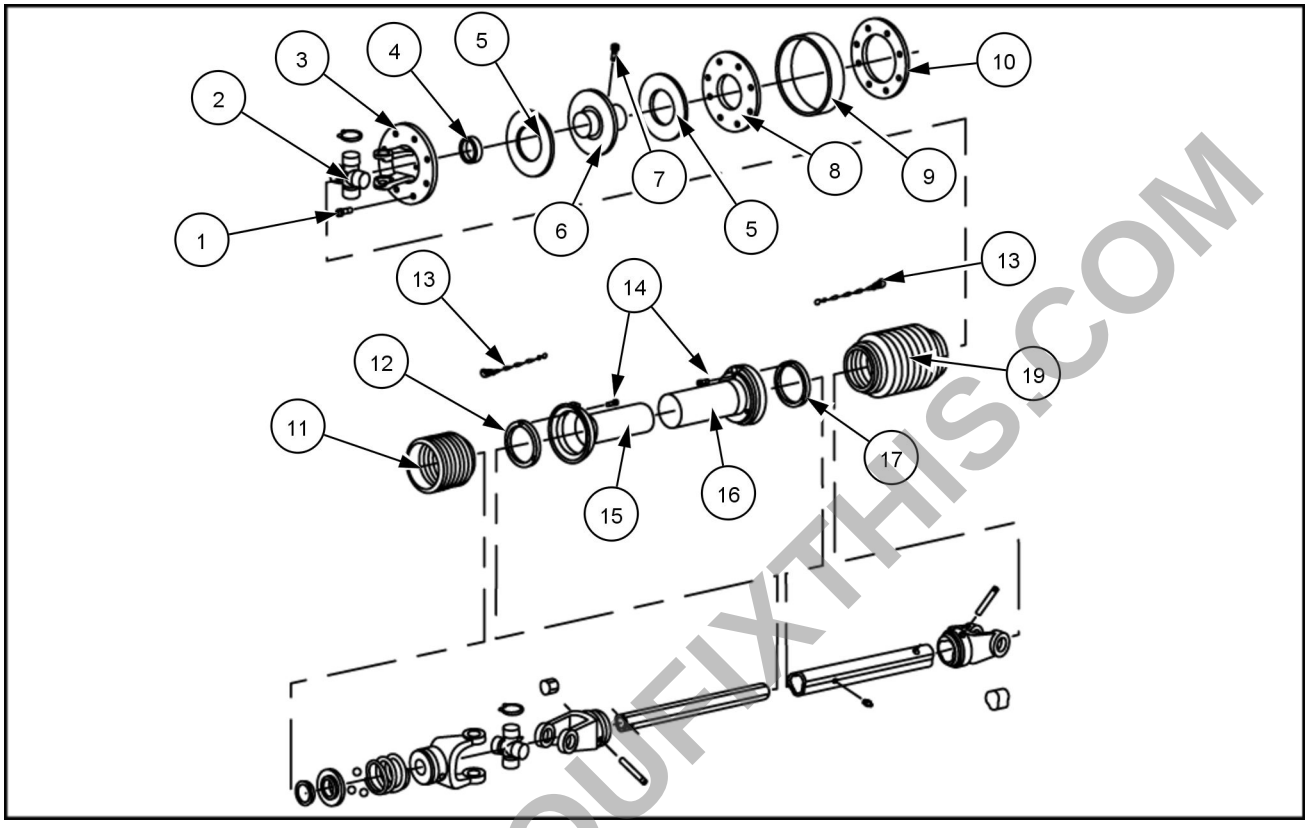
Power Take-Off (PTO) shaft - Exploded view - PTO drive shaft

NOTE: *Parts are similar for single and double drive PTO drive shafts.*



93111811 1

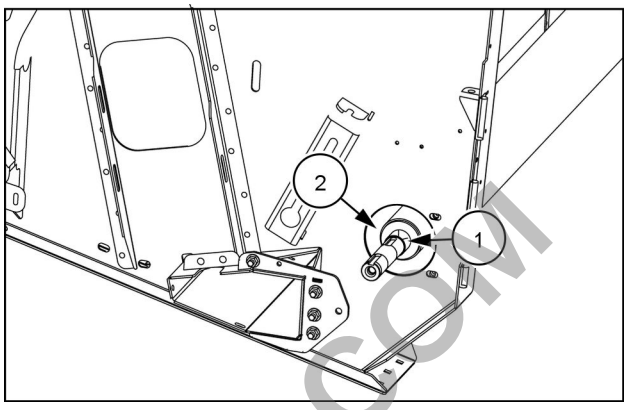
Item	Description	Quantity
(1)	Bolt	8
(2)	Universal joint kit	1
(3)	Yoke	1
(4)	Bushing	1
(5)	Disc	2
(6)	Hub	1
(7)	Screw	1
(8)	Plate	1
(9)	Band	1
(10)	Spring	1
(11)	Shield	1
(12)	Support	1
(13)	Chain	2
(14)	Screw	6
(15)	Inner shield	1
(16)	Shield	1
(17)	Ring nut	1
(18)	Cone	1

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Main gearbox and drive - Install - Main drive

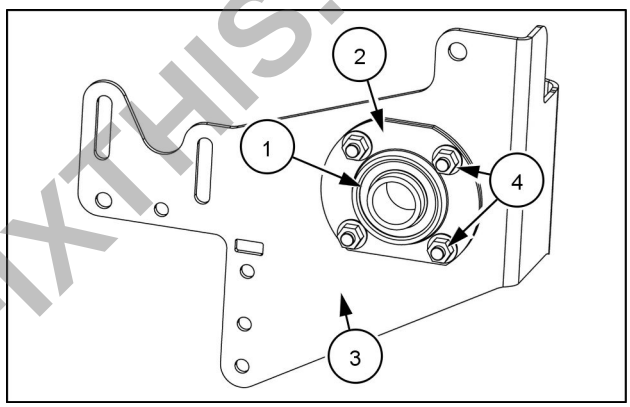
1. Insert main shaft **(1)** into tube **(2)**.



NHPE13GH00048AA 1

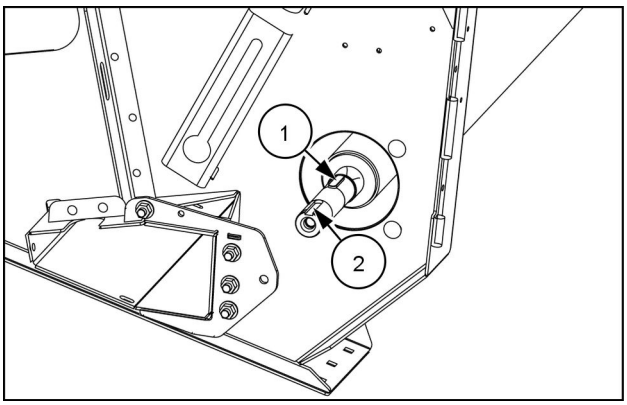
2. Install bearing **(1)** between flangettes **(2)** onto plate **(3)** using four M12 x 30 mm bolts **(4)**, Belleville washers, and nuts.

NOTE: *Both flangettes must be installed on outer face of plate.*



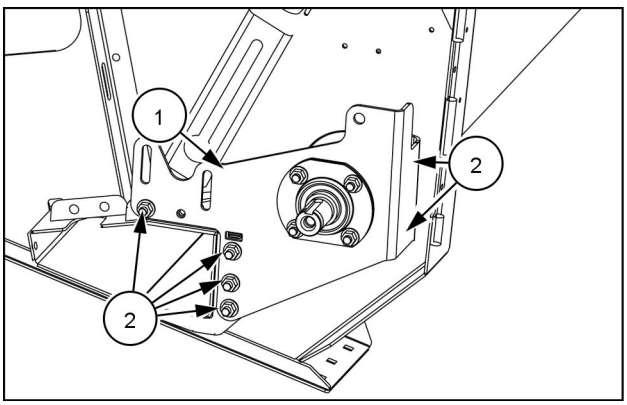
NHPE13GH00049AA 2

3. Insert key **(1)** into shaft **(2)**.
4. Slide sprocket onto shaft, making sure to align the key-way with the key.



NHPE13GH00050AA 3

5. Install plate assembly **(1)** onto left-hand side of header using six M12 x 30 mm bolts **(2)**, Belleville washers, and nuts.



NHPE13GH00137AA 4

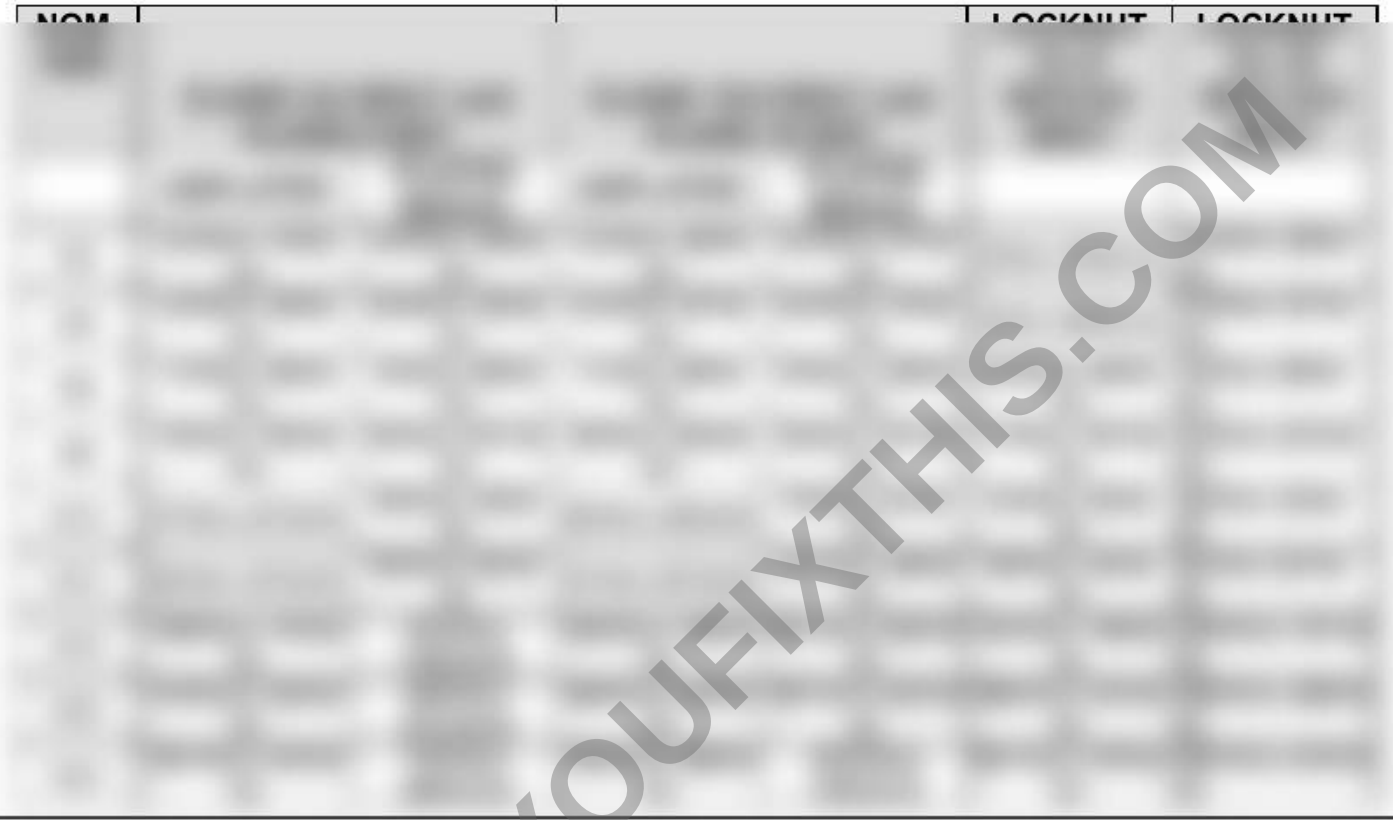
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Torque - Minimum tightening torques for normal assembly

740CF, 800C Grain Header

METRIC NON-FLANGED HARDWARE

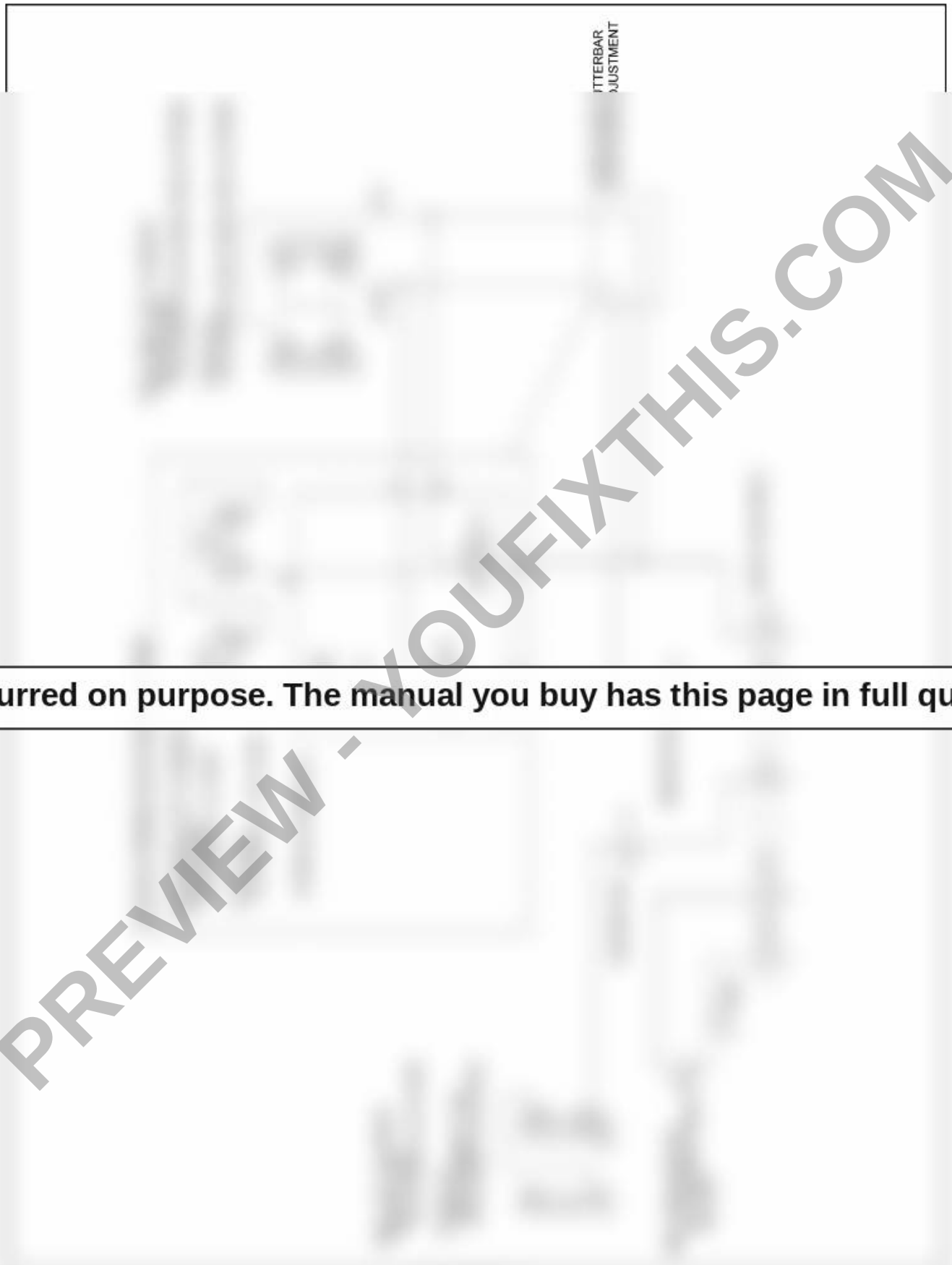


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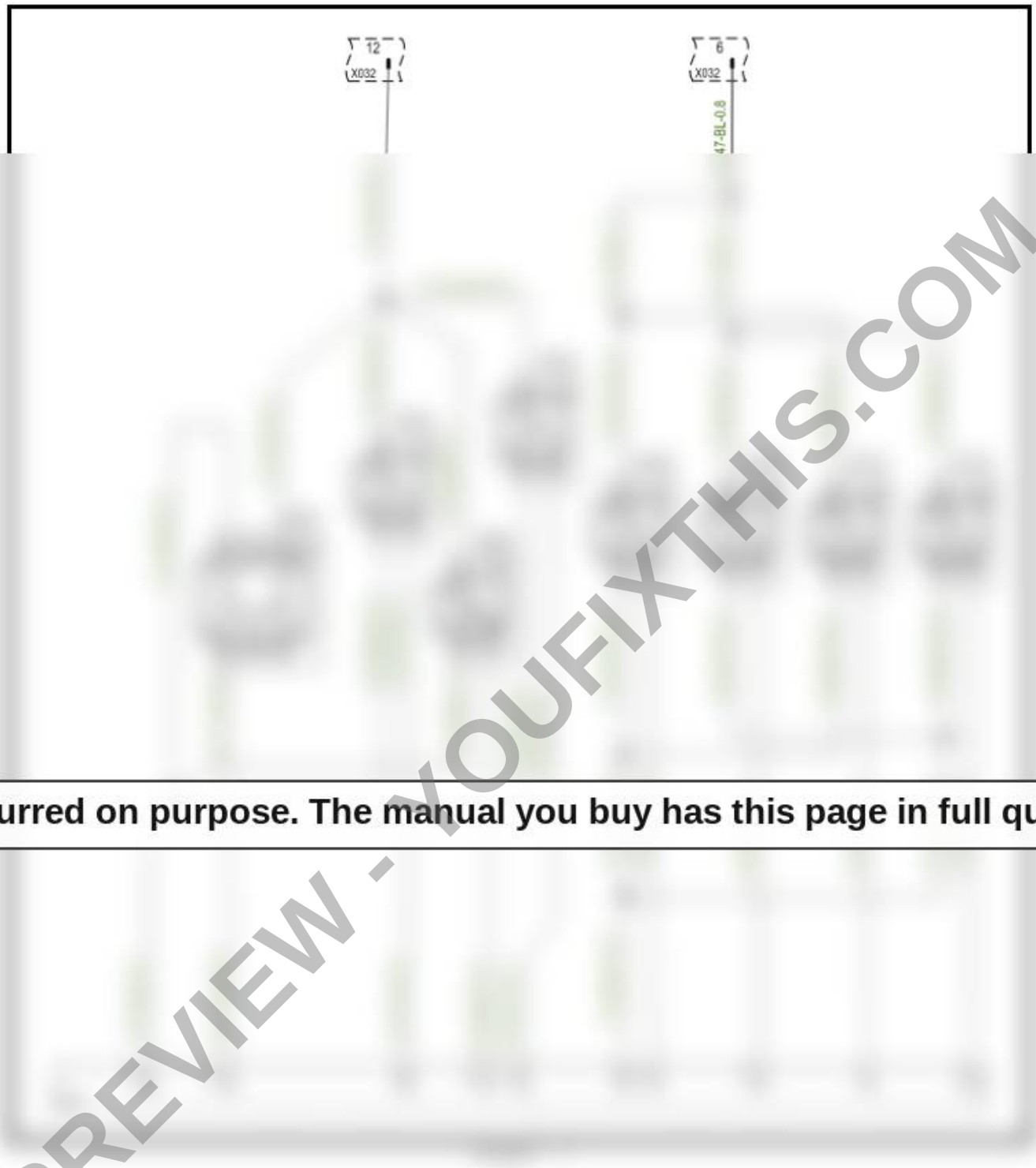
Hydraulic systems - Hydraulic schema - Hydraulic schematic



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Wire connectors - Component diagram 01 - Connectors X032 - X436

Connector X032 - Header harness to feeder harness (on combine)

Connector X032 - Feeder harness			
Pin number	Wire number	Circuit reference	Electrical schematics frame

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[35.420] Reel vertical positioning system 35.2

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Personal safety

Your machine may be equipped with special guarding or other devices in compliance with local legislation. Some of these require active use by the operator.

Therefore, check local legislation on the usage of this machine.

Hydraulic system safety

- Hydraulic oil leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury:
  - Relieve all pressure before disconnecting fluid lines.
  - Before applying pressure, make sure all connections are tight and components are in good condition.
  - Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose.
  - If injured by leaking fluid, seek medical attention immediately.
- The hydraulic hoses and fittings on your machine meet engineering specifications for the particular function. When replacing damaged, blown or worn hoses or fittings, use only manufacture authorized service parts.
- Care in hydraulic hose installation is a must:
  - Make sure pressure is relieved before starting installation procedure.
  - DO NOT kink or twist a hose, failure may occur.
  - Properly route the hose.
  - Have a certified hydraulic technician install the hose.
  - Remove air from the hydraulic system after installing any hydraulic component.
- Periodically check hydraulic system for leaks or damage. check for:
  - Leaks at hose fitting or in hose.
  - Damaged hoses and/or fittings.
  - Kinked, crushed, flattened, hard blistered, heat cracked, charred, twisted, soft or loose covered hoses.
  - Corroded or damaged fittings.
  - Leaking ports.
  - Excessive dirt and debris around hoses and/or fittings.
  - Damaged or missing hose retaining clamps, guards, shields, etc.
- DO NOT stand on or use a hose as a step. DO NOT pull or apply external forces to the hose. The hose may fail and cause injury.
- Keep all persons away from the working area. Mechanisms controlled by fluid power can become hazardous if a hose fails. Lifted mechanisms can fall to the ground, machine steering may fail, etc.
- Stay clear of a pressurized hose assembly that has blown apart. Hose fittings can be thrown off at high speed and a loose hose can whip around with great force.
- Hydraulic fluid can reach high temperatures. Allow fluid to cool before servicing the system.
- Escaping fluid under pressure may form a mist or fine spray which can flash or explode upon contact with an ignition source.
- Vibration can reduce hose service life. Make sure all retaining clamps and/or devices are secured.
- Environmental conditions can cause hose and fittings to deteriorate. Inspect hydraulic hoses periodically. Replace worn or damaged hoses and fittings.

Safety requirements for fluid power systems and components - hydraulics (EUROPEAN STANDARD PR EN 982)

- Flexible hose assemblies must not be constructed from hoses which have been previously used as part of a hose assembly.

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INTRODUCTION

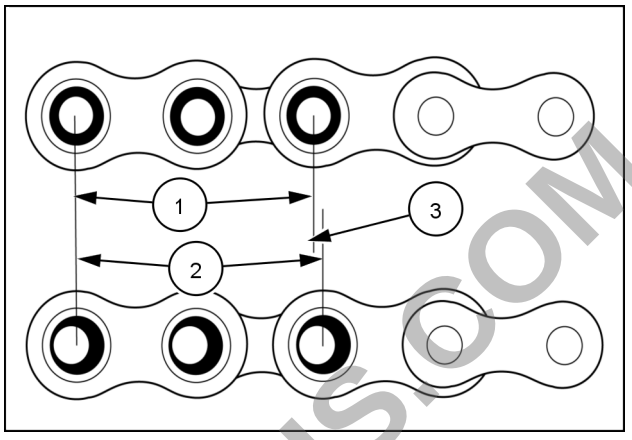
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Basic instructions - Chain Wear Tables - Roller Chains

Chain wear

The individual joints in a roller chain articulate as they enter and leave the sprockets. This articulation results in wear on the pins and bushings. Material that is worn away from these surfaces will cause the chain to gradually elongate. Chains do not stretch. Material is worn from pin and bushing.

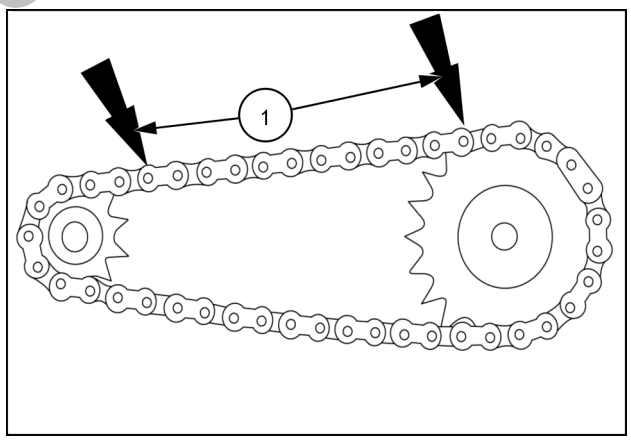


96091478 1

Critical dimensions of the chain are as follows:

- **(1)** 2X pitch
- **(2)** Wear plus 2X pitch
- **(3)** Elongation due to pin and bushing wear

Elongation is normal and may be minimized by proper lubrication and drive maintenance. The rate of wear is dependent upon: the relationship between the load and the amount of bearing area between pin and bushing, the material and surface condition of the bearing surfaces, the adequacy of lubrication, and the frequency and degree of articulation between pins and bushings. The latter is determined by the quantity of sprockets in the drive, their speeds, the number of teeth and the length of the chain in pitches.



96091469 2

An accurate wear measurement **(1)** can be made by using the above illustration. Measure as closely as possible from the center of one pin to the center of another. The more pitches (pins) contained within the measurement increase the accuracy. If the measured value exceeds the nominal by more than the allowable percentage the chain should be replaced. The maximum allowable wear elongation is approximately **3 %** for most industrial applications, based upon sprocket design. The allowable chain wear in percent can be calculated using the relationship: 200/ **(N)**, where **(N)** is the number of teeth in the large sprocket. This relationship is often useful since the normal maximum allowable chain wear elongation of **3 %** is valid only up to 67 teeth in the large sprocket. In drives having fixed center distances, chains running in parallel or where smoother operation is required, wear should be limited to approximately **1.5 %**.
For example, if 12 pitches (12 pins) of a #80 chain were measured and the result was **313.944 mm** (**12.360 in**) or greater (using **3 %** as the maximum allowable wear), the chain should be replaced. Anything less than **313.944 mm** (**12.360 in**) would still be acceptable by most industrial standards.

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Hydraulic systems - General specification - Flex solenoids

Nominal voltage	**12 V**
Power consumption	**18 W**
Duty rating	100%
Electrical connector	Deutsch DT04-2P

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Electrical system - Overview - Solenoids

Solenoids work in much the same way as relays, except that the iron core is not fixed in place. As a result, the windings in the control circuit cause the iron core to move.

A solenoid is basically a winding around an iron core. In the center of the core there is a plunger which is free to move through the core. When an electrical current passes through the winding an electromagnetic force is produced which causes the plunger to move through the core. If the current is switched off, the magnetic force is stopped and the plunger is returned by a spring.

The solenoid plunger may have different uses: the most common are moving a hydraulic spool or a mechanical lever.

The MOST COMMON FAULTS that can occur are:

- Short circuit winding: if a section of the winding allows the current to pass directly from positive (+) to negative (-) terminals without passing through the winding, this will cause the relevant circuit fuse to blow.
- Broken winding: causing an open circuit, it will not allow the current to pass through the winding, so the solenoid will not operate.
- Seized plunger (and/or connected components): the solenoid will only move the plunger if all components are free to move.

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Connector X566 - Flex pressure sensor

Connector X566 Flex pressure sensor			
Pin number	Wire number	Circuit reference	Electrical schematics frame
A	1224 (PK)	+5V	**Wire harnesses - Electrical schematic**
B	1226 (YE)	Sense	



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Reel speed and position control - Remove - Horizontal reel position sensor

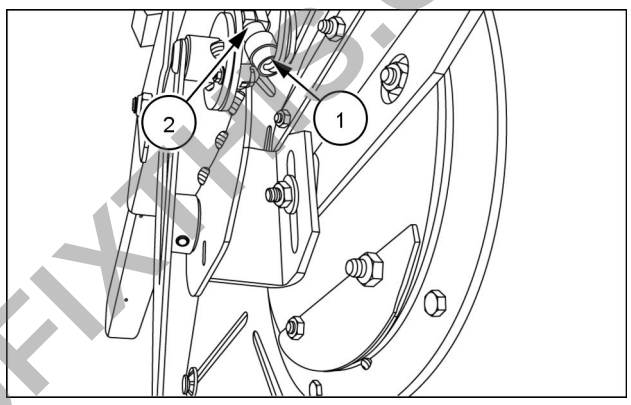
⚠ WARNING

Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.
1. **Disengage all drives.**
2. **Engage parking brake.**
3. **Lower all attachments to the ground, or raise and engage all safety locks.**
4. **Shut off engine.**
5. **Remove key from key switch.**
6. **Switch off battery key, if installed.**
7. **Wait for all machine movement to stop.**

Failure to comply could result in death or serious injury.

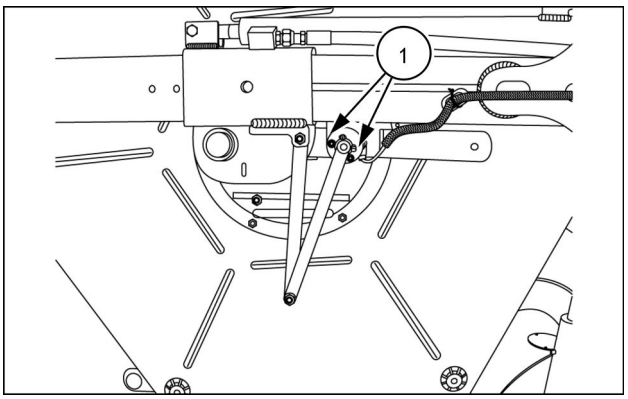
W0047A

1. Disconnect wire harness plug **(1)** from sensor **(2)**.



93103416 1

2. Remove two M4 nuts and spring lock washers (**1**).



93103418 2

3. Remove two bolts and spring lock washers. Remove sensor.

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Attachments/Headers - 58

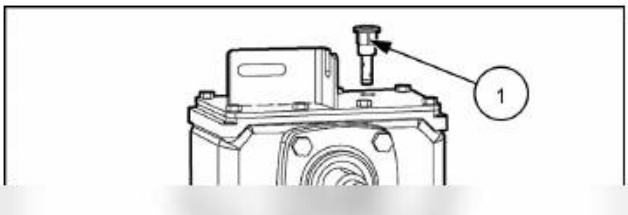
Attachment/Header cutting mechanism - 110

740CF

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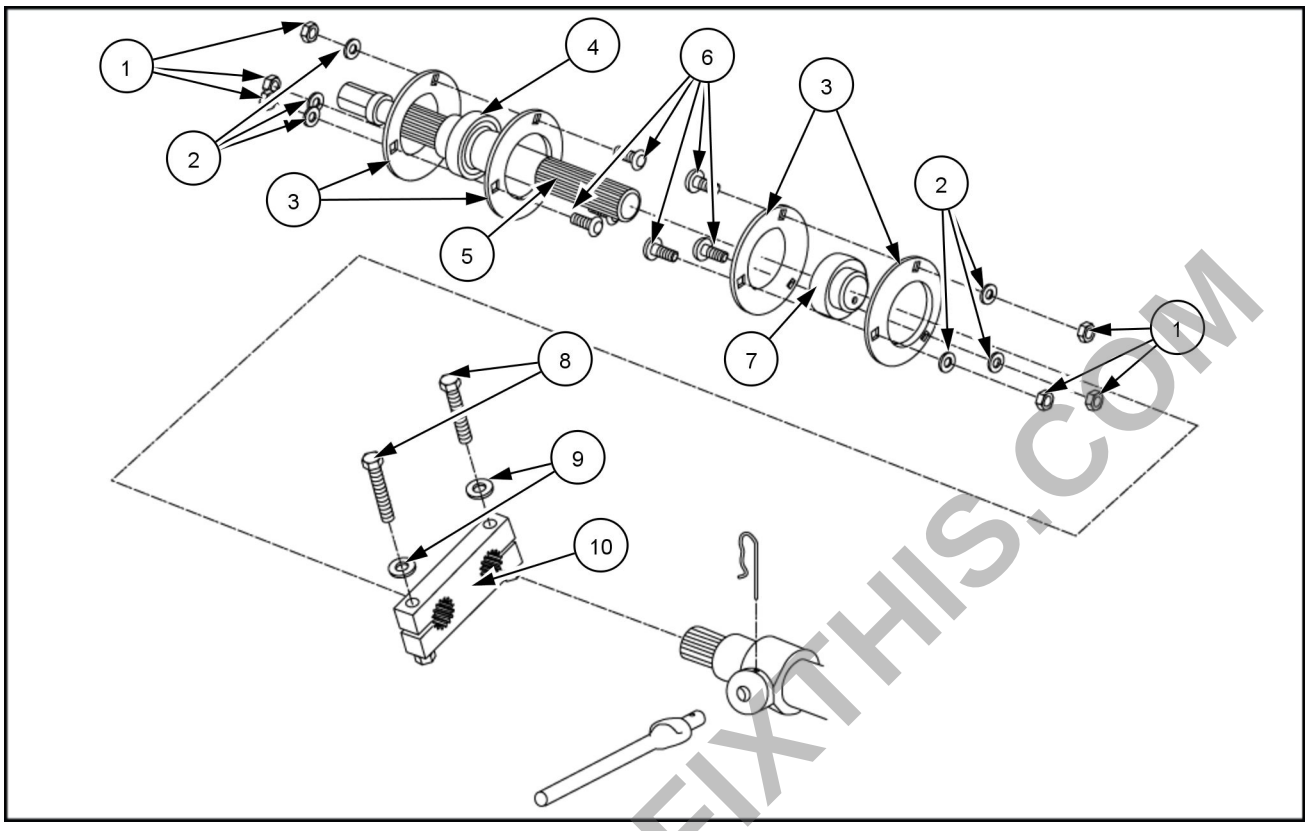
31. Install plug **(1)**.
32. Tighten to **29.5 N·m** (**22 lb ft**).



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93111791 2

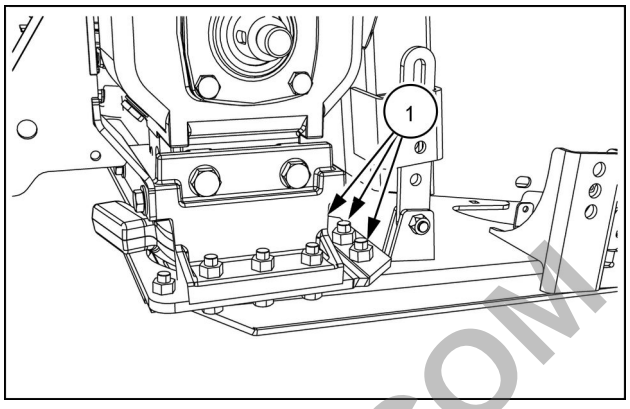
Right-hand flange of auger (A)

Reference	Description	Quantity
(1)	Nut, M10	6
(2)	Spring lock washer, 10 mm	6
(3)	Flange	4
(4)	Bearing	1
(5)	Shaft	1
(6)	Carriage bolt, M10 x 30 mm	6
(7)	Bearing	1
(8)	Bolt, M12 x 80 mm	2
(9)	Spring lock washer, 12 mm	2

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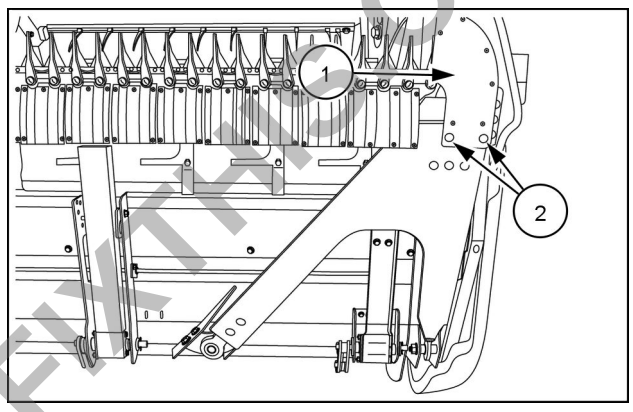
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9. Remove M12 x 85 three carriage bolts with M12 nuts **(1)** that secure wobble box and banjo plate to A-frame.



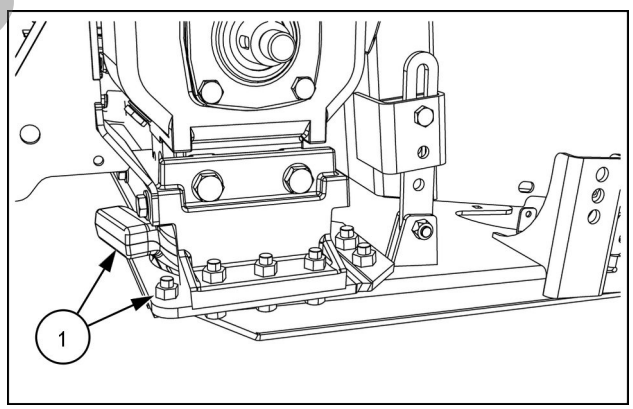
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10. Remove two M10 x 25 mm bolts with M10 x 22 mm Belleville washers **(2)** securing skid shoe **(1)** to A-frame.



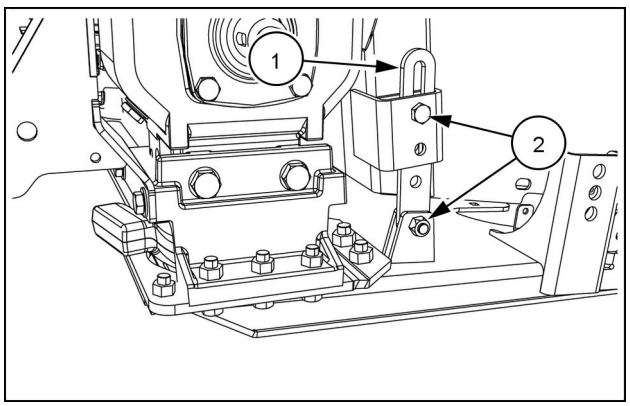
NHIL13GH00638AA 8

11. Remove two M12 x 40 mm carriage bolts, 13.5 x 24 x 3 mm washers and M12 nuts **(1)**.
12. Remove wobble box and plate assembly from header.



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13. Remove link **(1)** by loosening two M12 x 40 mm bolts with M12 prevailing torque nuts **(2)**.



NHIL13GH00586AA 10

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