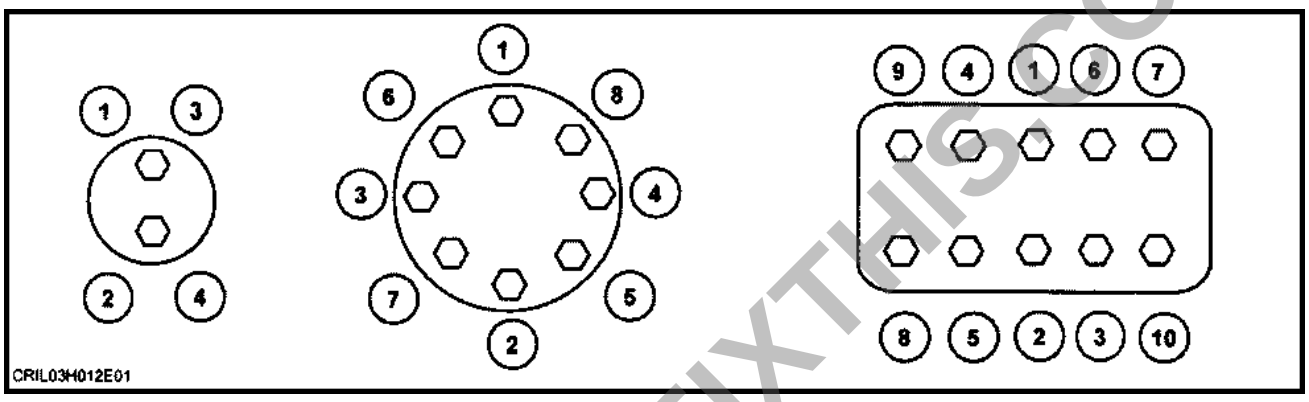
Torque

CS6080	
CS6090	

Minimum hardware tightening torques (in N m or lb in /lb ft) for normal assembly applications unless otherwise stated

NOTICE: *Shown below is the suggested initial torque tightening sequences for general applications, tighten in sequence from item 1 through to the last item of the hardware.*

The minimum hardware tightening torque on drawings, in specifications etc. have priority.
The applicable CNH Standard is ENS7001.



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Metric hardware

	Class 8.8 in N m (lb in or lb ft)			Class 10.9 in N m (lb in or lb ft)		
Nominal Size	Plated nut	Lock nut	Hardened nut	Plated nut	Lock nut	Hardened nut
M3	1.3 N·m (11.5 lb in)	0.7 N·m (6.2 lb in)	1.2 N·m (10.6 lb in)	1.8 N·m (15.9 lb in)	0.9 N·m (8.0 lb in)	1.6 N·m (14.2 lb in)
M4	2.9 N·m (25.7 lb in)	1.6 N·m (14.2 lb in)	2.6 N·m (23.0 lb in)	4.2 N·m (37.2 lb in)	2.3 N·m (20.4 lb in)	3.7 N·m (32.7 lb in)
M5	5.9 N·m (52.2 lb in)	3.2 N·m (28.3 lb in)	5.3 N·m (46.9 lb in)	8.5 N·m (75.2 lb in)	4.6 N·m (40.7 lb in)	7.6 N·m (67.3 lb in)
M6	10.1 N·m (89.4 lb in)	5.5 N·m (48.7 lb in)	9.1 N·m (80.5 lb in)	14.5 N·m (10.7 lb ft)	7.9 N·m (69.9 lb in)	13 N·m (9.6 lb ft)
M8	24.5 N·m (18.1 lb ft)	13.5 N·m (10.0 lb ft)	22 N·m (16.2 lb ft)	35.1 N·m (25.9 lb ft)	19.3 N·m (14.2 lb ft)	31.5 N·m (23.2 lb ft)
M10	48.7 N·m (35.9 lb ft)	26.8 N·m (19.8 lb ft)	43.8 N·m (32.3 lb ft)	69.5 N·m (51.3 lb ft)	38.2 N·m (28.2 lb ft)	62.5 N·m (46.1 lb ft)
M12	85 N·m (62.7 lb ft)	46.7 N·m (34.4 lb ft)	76.5 N·m (56.4 lb ft)	121 N·m (89.2 lb ft)	66.5 N·m (49.0 lb ft)	108.9 N·m (80.3 lb ft)
M14	135 N·m (99.6 lb ft)	74.2 N·m (54.7 lb ft)	121.5 N·m (89.6 lb ft)	193 N·m (142.3 lb ft)	106.1 N·m (78.3 lb ft)	173.7 N·m (128.1 lb ft)
M16	210 N·m (154.9 lb ft)	115.5 N·m (85.2 lb ft)	189 N·m (139.4 lb ft)	301 N·m (222 lb ft)	165.5 N·m (122.1 lb ft)	270.9 N·m (199.8 lb ft)
M18	299 N·m (220.5 lb ft)	164.4 N·m (121.3 lb ft)	269.1 N·m (198.5 lb ft)	414 N·m (305.4 lb ft)	227.7 N·m (167.9 lb ft)	372.6 N·m (274.8 lb ft)
M20	425 N·m (313.5 lb ft)	233.72 N·m (172.4 lb ft)	382.5 N·m (282.1 lb ft)	587 N·m (432.9 lb ft)	322.8 N·m (238.1 lb ft)	528.3 N·m (389.7 lb ft)
M22	579 N·m (427 lb ft)	318.4 N·m (234.8 lb ft)	521.1 N·m (384.3 lb ft)	801 N·m (590.8 lb ft)	440.5 N·m (324.9 lb ft)	720.9 N·m (531.7 lb ft)
M24	735 N·m (542.1 lb ft)	404.2 N·m (298.1 lb ft)	661.5 N·m (487.9 lb ft)	1016 N·m (749.4 lb ft)	558.8 N·m (412.1 lb ft)	914.4 N·m (674.4 lb ft)
M27	1073 N·m (791.4 lb ft)	590.1 N·m (435.2 lb ft)	967.5 N·m (713.6 lb ft)	1486 N·m (1096 lb ft)	817.3 N·m (602.8 lb ft)	1337 N·m (986.1 lb ft)

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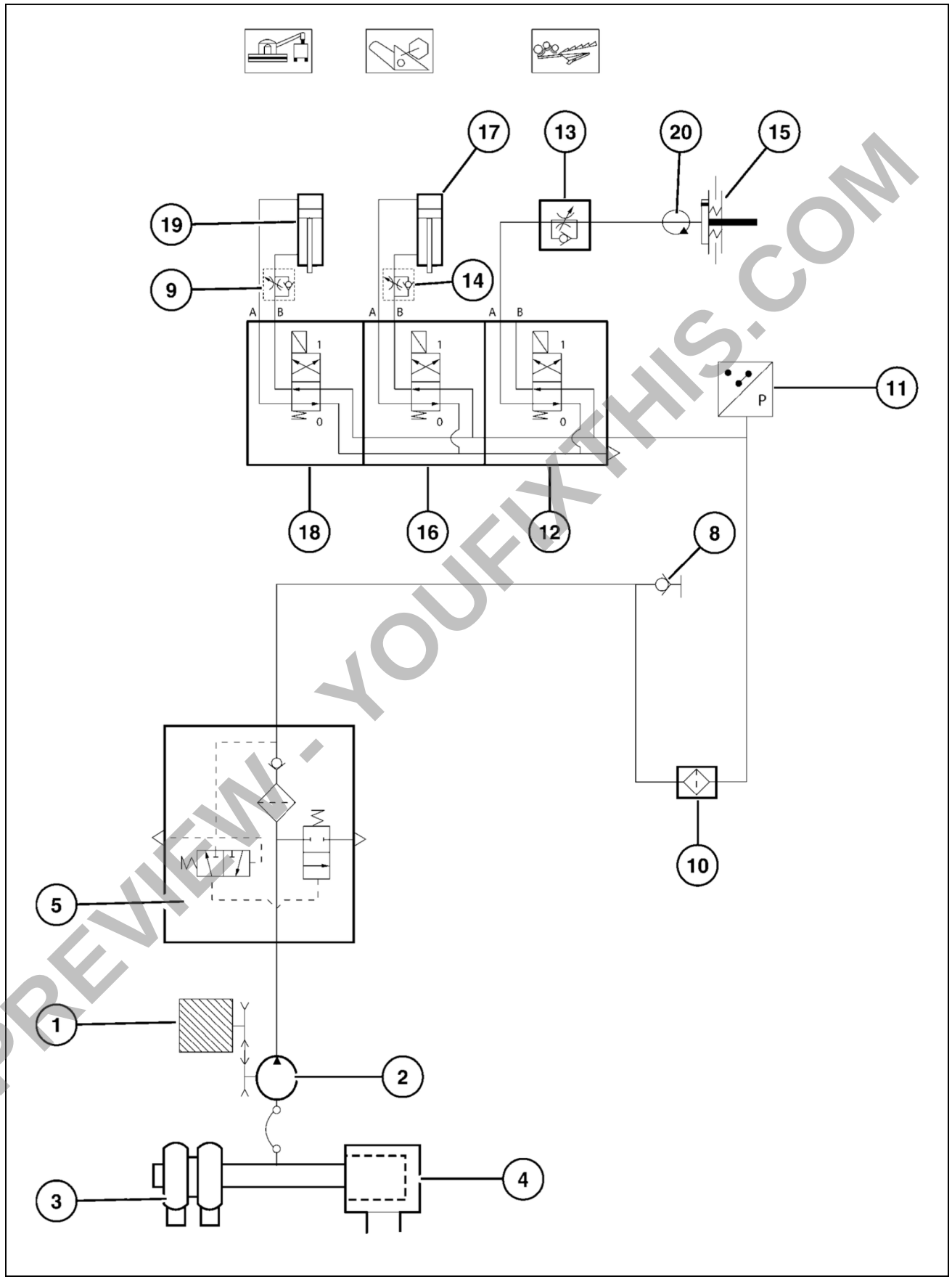
Engine air compressor - Pneumatic schema



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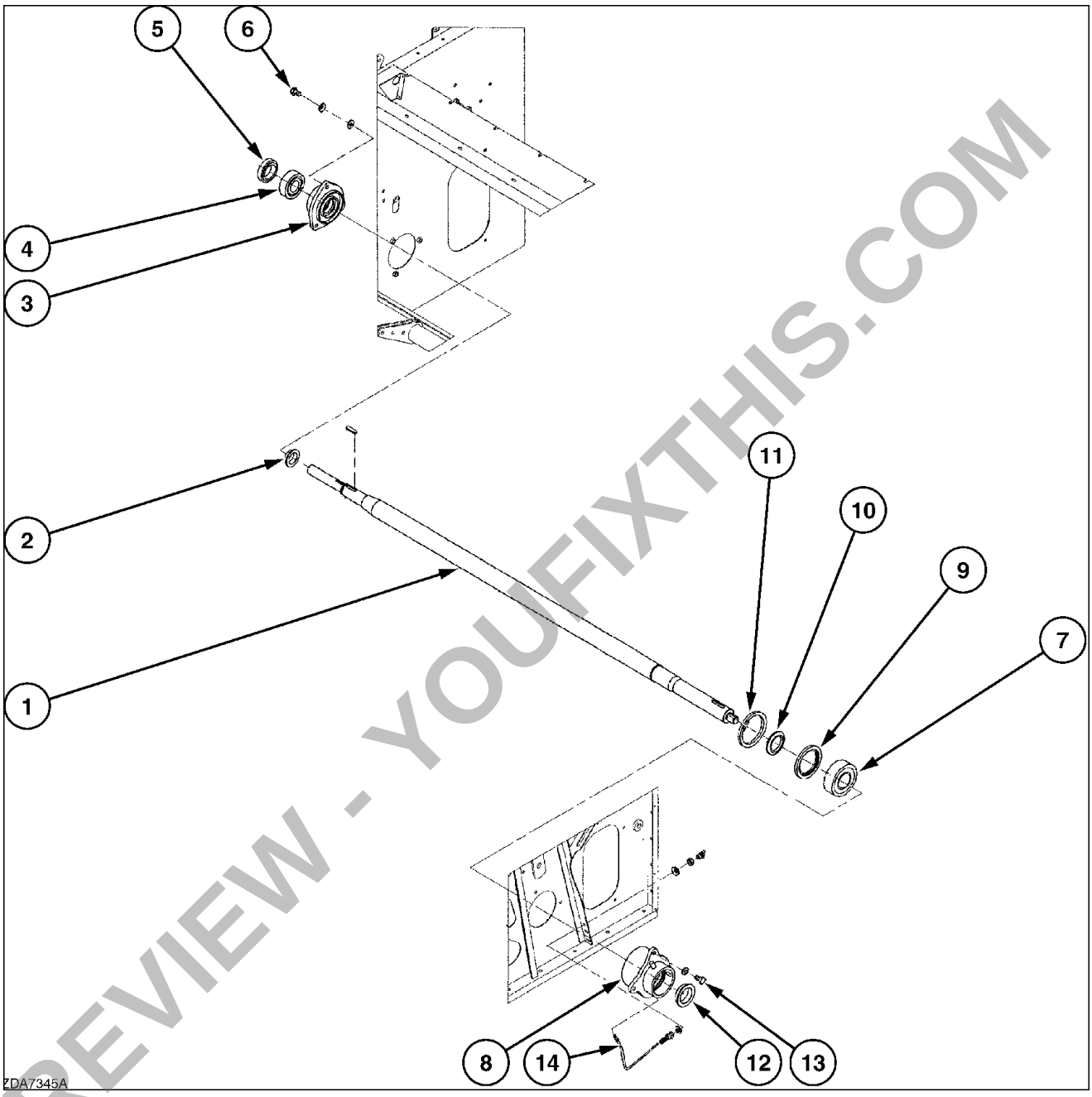
Power Take-Off (PTO) shaft Intermediate shaft - Exploded view

CS6080	
CS6090	



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Intermediate shaft

1 Intermediate shaft
2 Ring
3 Right-hand side bearing housing
4 Right-hand side bearing
5 Ring
6 Bolt
7 Left-hand side bearing
8 Left-hand side bearing housing
9 Ring
10 Ring
11 Retaining ring
12 Ring
13 Bolt
14 Grease line

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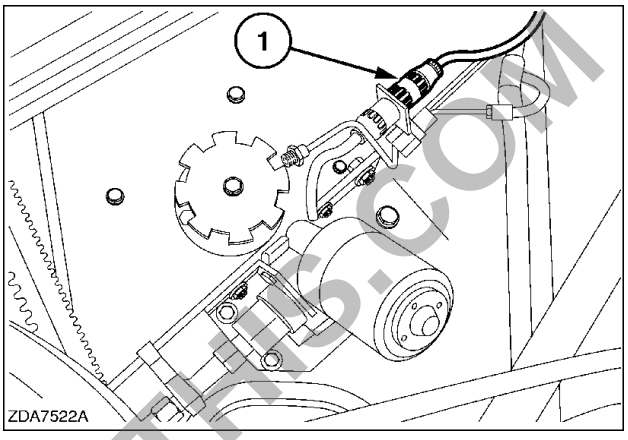
Power Take-Off (PTO) shaft Left-hand bearing - Remove

CS6080	
CS6090	

Prior operation:
Remove first the drum variator drive disks. Refer to **Variator drive disks - Remove (66.321)**.

1. Disconnect the wires **(1)** of the electric motor.



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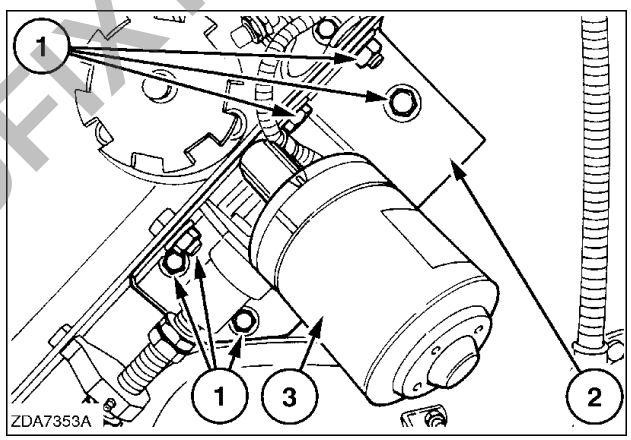
2. Remove the bolts **(1)** and remove the support **(2)** with the electric motor **(3)**.



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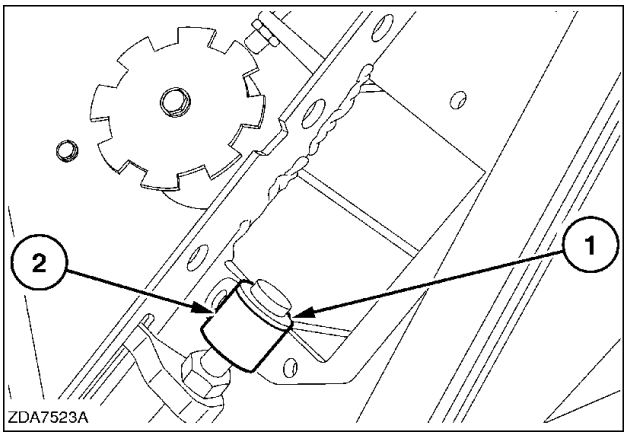
3. Remove the ring **(1)** and the bushing **(2)**.



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Electrical system - Electrical standard

CS6080	
CS6090	

WIRES

The wiring diagram is drawn following the DIN 40719 standards.

Each page contains a part of the complete wiring diagram, not necessarily a complete group.

Color code

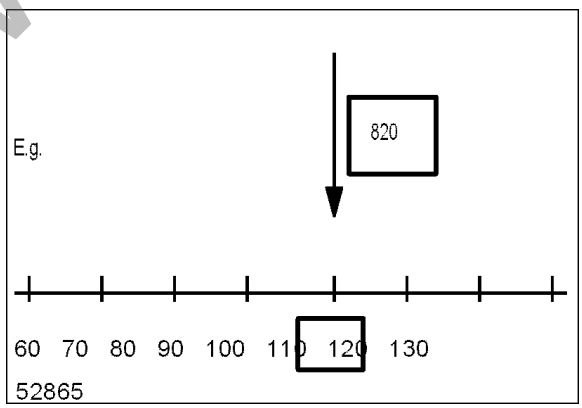
Ten colours of wires are used on the combine, each color having its specific signification.

- Red (rd):+ **12 V** without passing the ignition switch
- Black (zw): directly earthed to the frame
- White (wt): connected with the pin of a switch which engages a system that increases something (e.g. increase of drum rpm)
- Grey (gr): connected with the pin of a switch which disengages a system that decreases something
- Brown (br): signal wire from the rpm monitor to a sensor
- Blue (bl): earth of sensors through the monitor
- Green (gn): wire to non rpm sensors (e.g. engine oil pressure, temperature, etc)
- Orange (or): lighting
- Yellow (ge): lighting
- Purple (pu): to rear direction indicator lights.
- Pink (pk): ref. voltage.

On the upper part of the page, the + **12 V** lines are drawn.

The line at the top (first line) always is at + **12 V** (when the main battery switch is engaged).

Lines 2 and 3 have + **12 V** when relays K6 and K9 are energized. This happens when the ignition switch is engaged.



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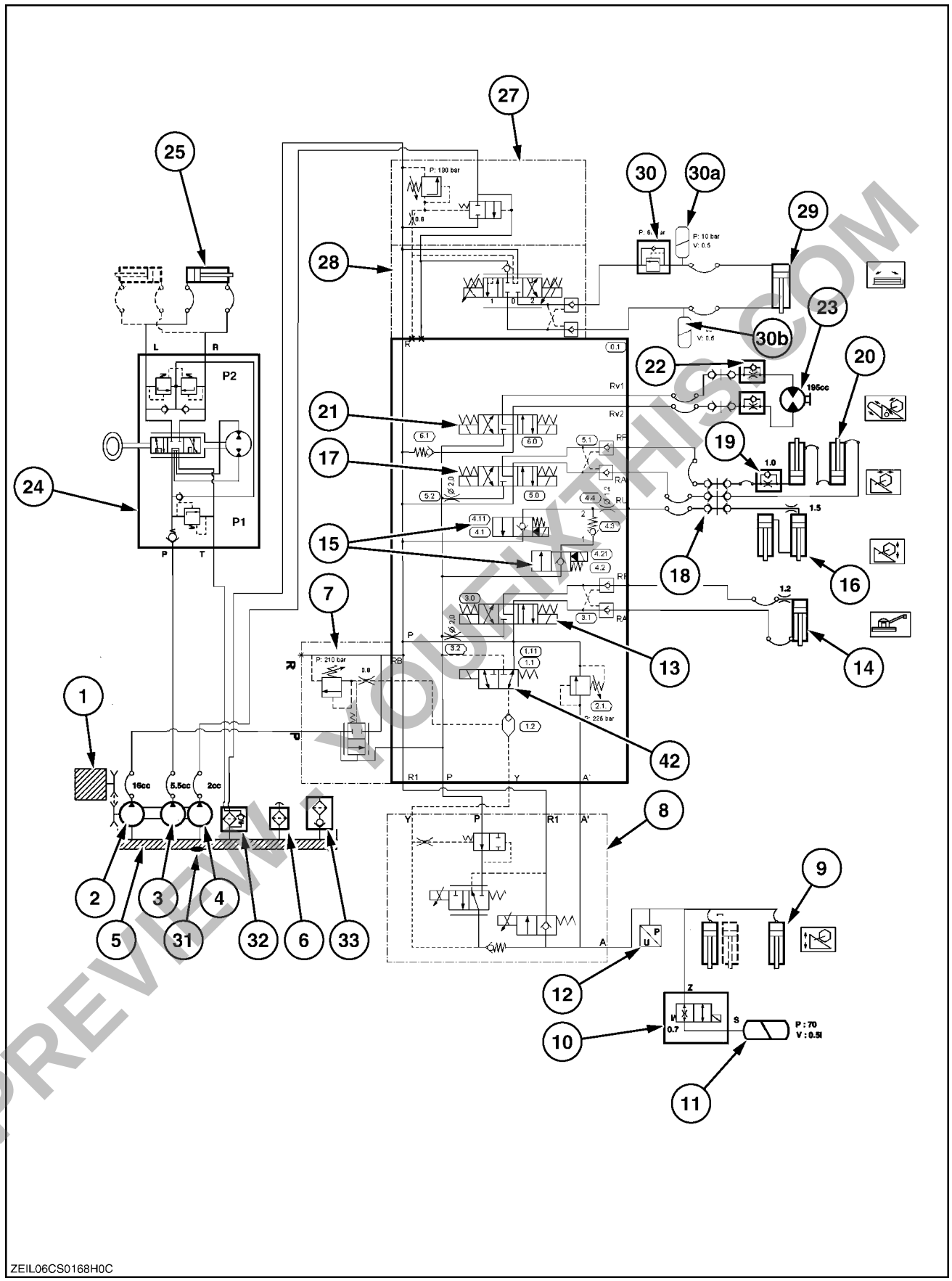

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Safety rules

CS6080	
CS6090	

WARNING AND DANGER SYMBOL

This warning symbol points out important personal safety messages. Carefully read the following safety regulations and observe advised precautions in order to avoid potential hazards and safeguard your health and safety. In this manual the symbol is accompanied by the following key words:
WARNING - Warnings concerning unsuitable repair operations that may jeopardise the safety of Repair personnel.
DANGER - Specific warnings concerning potential hazards for operator safety or for other persons directly or indirectly involved.

ACCIDENT PREVENTION

Most accidents or injuries that occur in workshops are the result of non-observance of simple and fundamental safety regulations. For this reason, IN MOST CASES THESE ACCIDENTS CAN BE AVOIDED by foreseeing possible causes and consequently acting with the necessary caution and care.

Accidents may occur with all types of machine, regardless of how well the machine in question was designed and built.

A careful and judicious service technician is the best guarantee against accidents.

Precise observance of the most basic safety rule is normally sufficient to avoid many serious accident

⚠ DANGER ⚠

Shut down the machine, remove key, be sure all moving parts have stopped and all pressure in the systems is relieved before cleaning, adjusting or lubricating the equipment. Failure to comply will result in death or serious injury.

M871

SAFETY RULES

General guidelines

- Carefully follow specified repair and maintenance procedures.
- Do not wear rings, wristwatches, jewellery, unbuttoned or loose articles of clothing such as: ties, torn clothing, scarves, open jackets or shirts with open zips that may remain entangled in moving parts. It is advised to wear approved safety clothing, e.g.: non-slip footwear, gloves, safety goggles, helmets, etc.
- Do not carry out repair operations with someone sitting in the driver's seat, unless the person is a trained technician who is assisting with the operation in question.
- Do not operate the machine or use any of the implements from different positions, other than the driver's seat.
- Do not carry out operations on the machine with the engine running, unless specifically indicated.
- Stop the engine and check that the hydraulic circuits are pressure-free before removing caps, covers, valves, etc.
- All repair and maintenance operations must be carried out using extreme care and attention.
- Service steps and platforms used in the workshop or elsewhere should be built according to standard accident prevention regulations.
- Disconnect the p.t.o. from the and label all controls to indicate that the machine is being serviced. Any parts that are to be raises must be locked in position.
- Brakes are inoperative when manually released for repair or maintenance purposes. Use blocks or similar devices to control the machine in these conditions.

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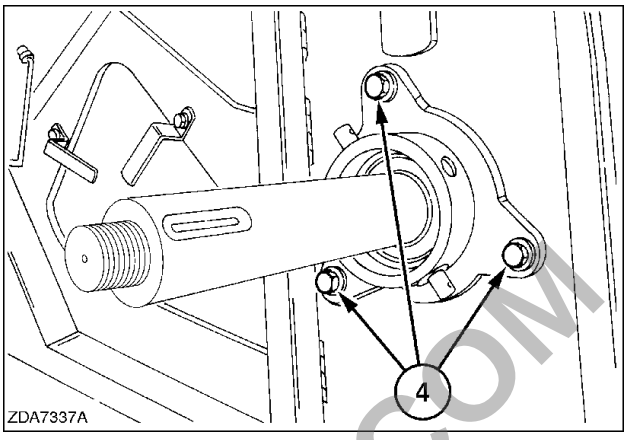
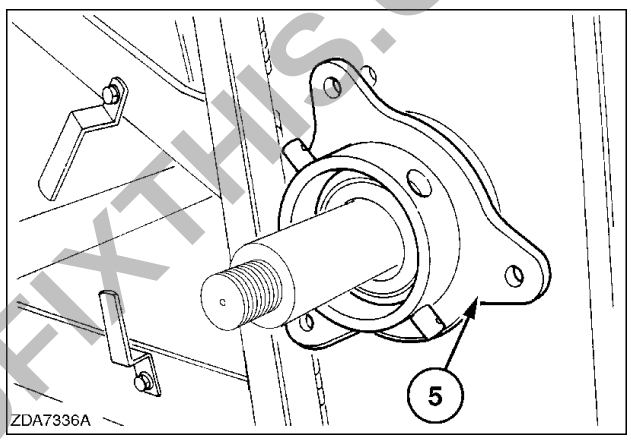
8. Remove the three bolts **(4)**.



ZDA7337A 8

9. Install three threaded rods to pull of the bearing housing **(5)**, using the special tool **380000320**.



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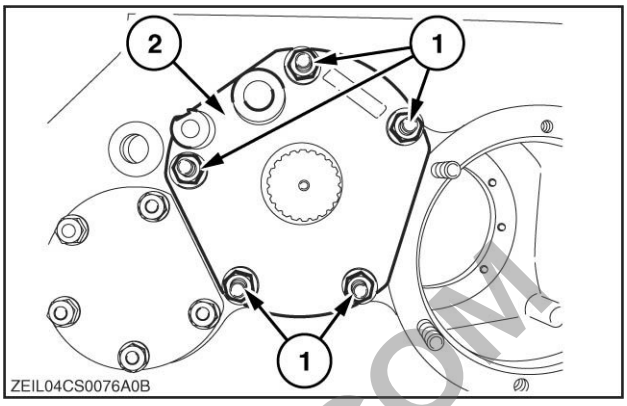
4. Install the cover **(2)** with shims, seals and bearing outer ring, and tighten the nuts **(1)**.



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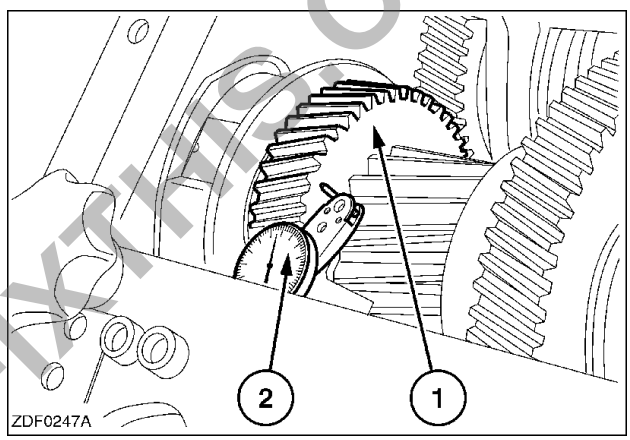
5. Install a dial the gauge **(2)** on the gearbox housing and locate the probe perpendicular against the side of the gear **(1)**.
   Apply a load in one direction and oscillate the shaft several times while the load is applied.
   Set the dial gauge to zero.
   Apply the load in the opposite direction, oscillate and read the axial movement of the shaft.
   Make three measurements at **120 °** of the intermediate shaft. Calculate the arithmetic mean of the three readings, it should be between **0.15 - 0.25 mm** (**0.006 - 0.010 in**)
   If required, adjust the shims. To decrease the axial movement, decrease the quantity of shims.



ZDF0247A 5

NOTICE: *Be sure to measure on the gear **(1)** as the other gears are mounted on needle bearings.*

Next operation:
Differential - Install (21.182).
Next operation:
Articulated half-shaft - Install (21.182).

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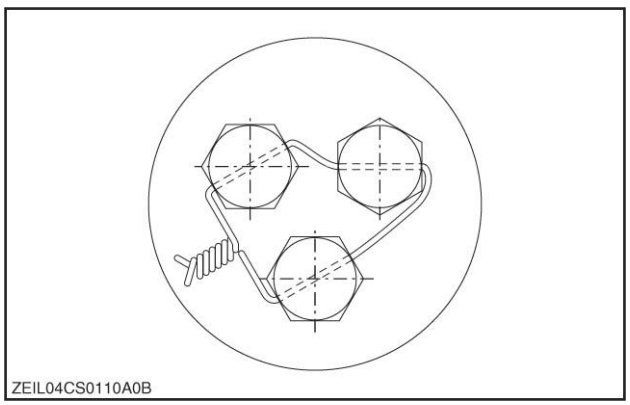
6. OUTPUT SHAFT:
   Install the outer rings of bearings **(2)** and **(8)** in the final drive housing.
7. Use **NEW HOLLAND AMBRA GR 75 MD** to lubricate the lip of the seal **(1)** and to fill the cavity of the seal. Install the seal **(1)** in the final drive housing with the lip facing to the housing.
8. Heat the inner ring of bearing **(2)** to **80 °C** (**176 °F**) and install it on output shaft **(23)**.
9. Coat bearing **(2)** with oil.
10. Install spacer **(3)** on the shaft **(18)**.
11. Slide gear **(4)** into the final drive housing.
12. Bring the output shaft into the final drive housing through gear **(4)**.
13. Lay the complete final drive housing flat on the wheel flange.
14. Install the retaining ring **(6)**, outer bearing **(8)**, the washer **(12)** and tighten the bolts **(11)** to **90 Nm** (**66 lb ft**) to make sure bearing **(8)** is seated correctly. Loosen the three bolts **(11)** evenly until there is some end play on the output shaft. Tap the shaft with a heavy soft hammer to loosen the bearings and obtain end play.
15. Install a dial gauge to check the output shaft end play.
16. Retighten bolts **(11)** evenly until zero end play is just reached.
17. Remove the three bolts **(11)** and the washer **(12)**.
18. Measure the distance between the shaft end and the outer edge of bearing **(8)**.
19. Install shims **(21)** for a same value of "X-0.5 mm" (X-0.02 in).

NOTE: *Axial preload on the bearing should be* ***0.45 - 0.55 mm*** *(* ***0.018 - 0.022 in****).*

20. Reinstall the washer **(12)** and tighten the bolts **(11)** to **235 Nm** (**175 lb ft**).
21. Secure the bolts **(11)** with a wire as shown.

NOTE: *Wire must be threaded so that, as the hardware tends to loosen, the wire is stretched tighter. Twist the ends of the wire for at least 5 twists and position them against the washer.*



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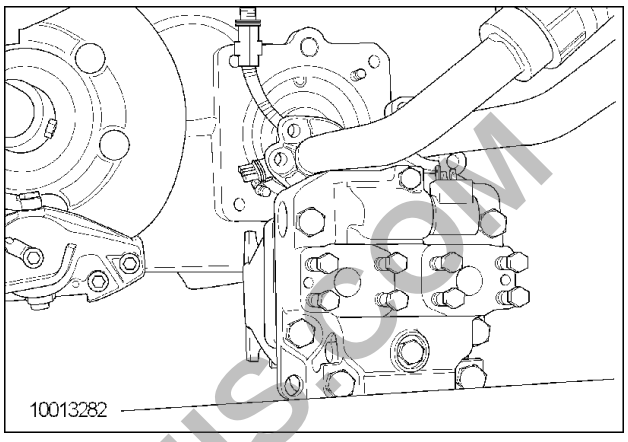
Motor - Install

CS6080	
CS6090	

1. Support the weight of the motor with a floor jack.
   Raise the motor into position on the transmission.
   Apply grease onto the spline shaft of the motor.
   Engage the spline shaft of the motor and push it into the female spline until the mounting flange is against the transmission.



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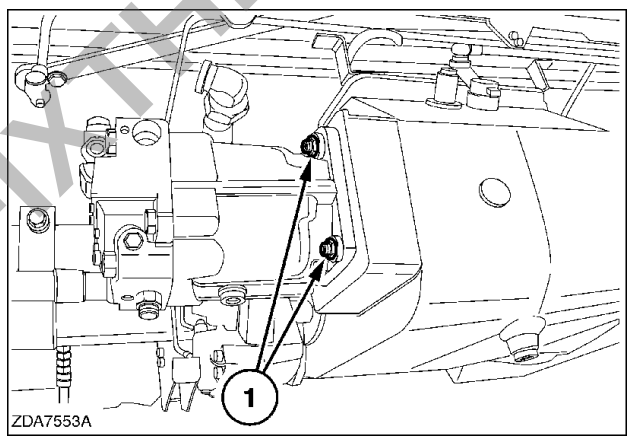
2. Turn on the four mounting nuts **(1)**.

NOTE: *Apply* ***LOCTITE® 270****,* ***OMNIFIT® 200M*** *or* ***PERMABOND® 118*** *onto the four nuts* ***(1)****.*



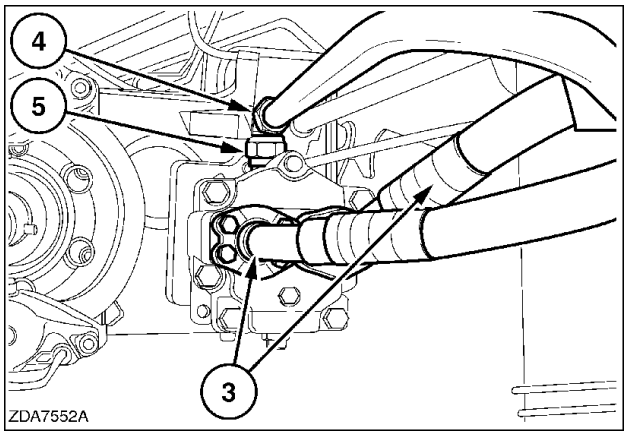
ZDA7553A 2

3. Torque the nuts to standard torque.

4. Line the case drain elbow **(5)** up with the case drain line **(4)**.
   Engage the line into the elbow and tighten the fitting.
   Tighten the lower elbow fitting.
   Torque both ends of the elbow between **110 - 120 Nm** (**81 - 89 lb ft**).

NOTE: *The torque of the nipple in the motor should be tighten with a torque between* ***170 - 187 Nm****. (* ***125 - 138 lb ft****)*

NOTE: *The case drain line may have sprung. Use a crow-bar or other prying device to line the pipe up enough to engage the threads of the fitting to prevent galling.*



ZDA7552A_45 3

5. Lubricate and install O-rings into the ends of the main high pressure lines **(3)**.

NOTICE: *Be sure that the high pressure line of port "A" from the hydrostatic pump is connected with the high pressure line of port "B" from the hydrostatic motor. (Port "A" pump = Port "B" motor)*

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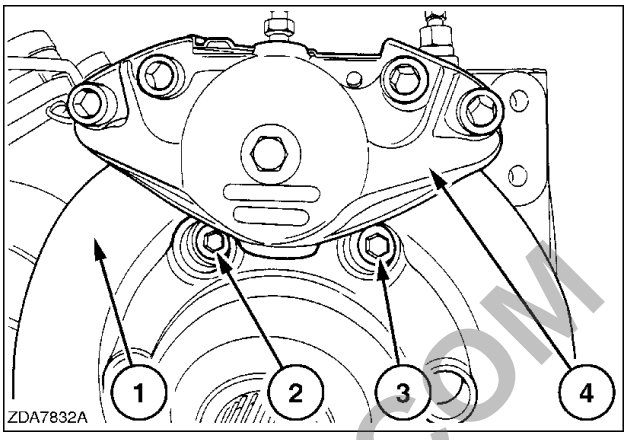
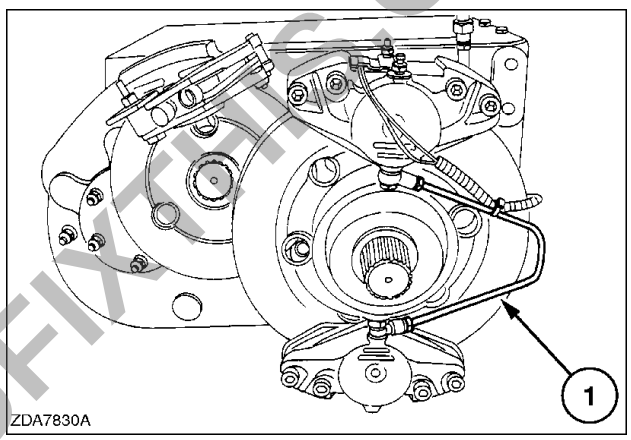
4. Apply **LOCTITE® 242** (**OMNIFIT® 50M** or **PERMABOND® 113**) on the Allen screws **(2)** and **(3)**.
   Install the upper brake shoe **(4)** and tighten the Allen screws **(2)** and **(3)** to a torque between **260 - 270 Nm** (**192 - 200 lb ft**).



ZDA7832A 4

5. Install the flexible hose **(1)** between the upper and lower brake shoes and tighten the nipples to a torque between **11 - 15 Nm** (**8 - 11 lb ft**).
   Proceed the same on the other side.



ZDA7830A_50 5

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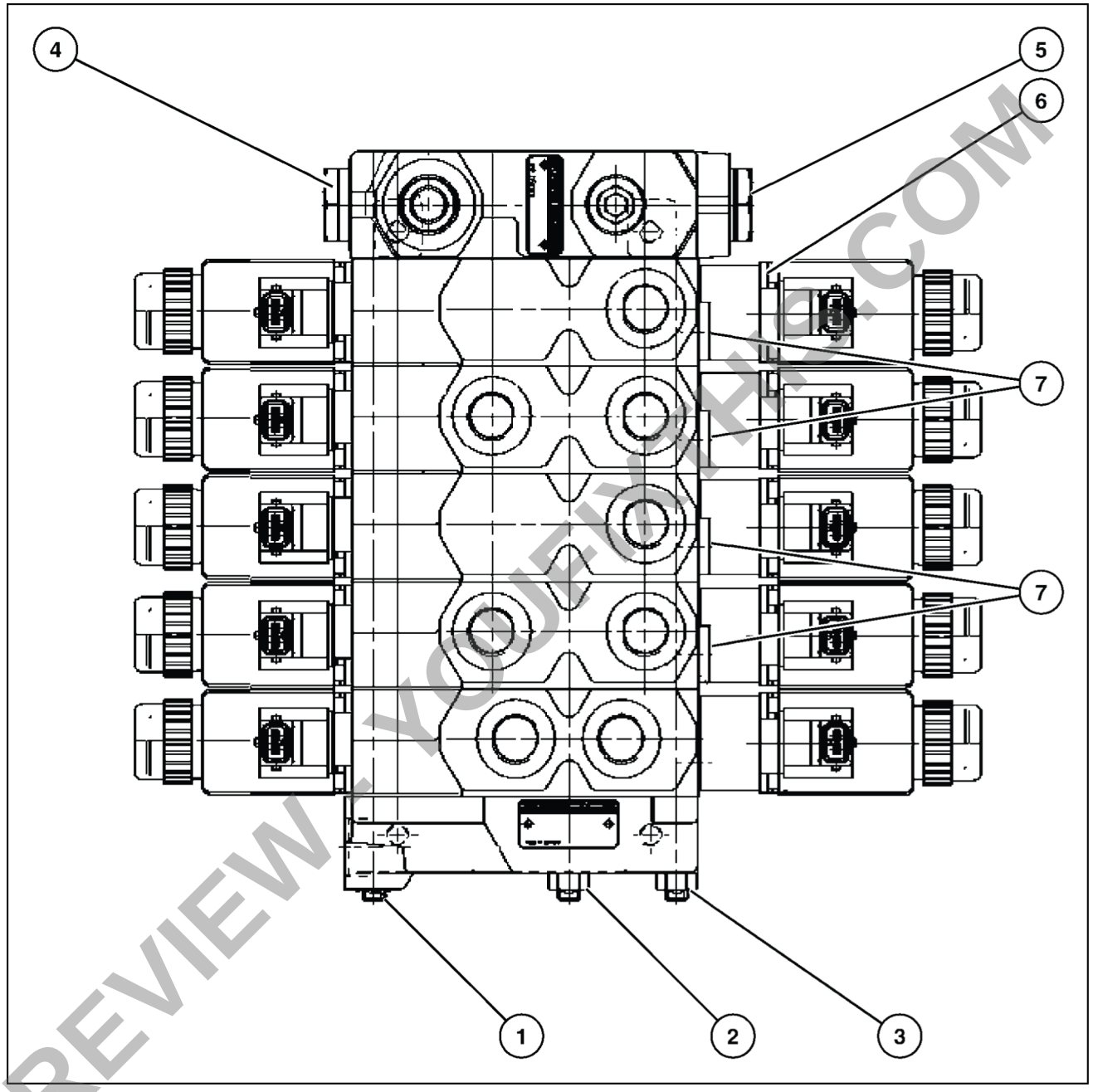
Control valve auxiliary block - Torque

NOTICE: *When reassembling the command valve, place all the valves on a flat horizontal surface and pay attention to the sequence and torques.*



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1. Nut: Torque between **25 - 33 N·m** (**18.4 - 24.3 lb ft**)
2. Nut: Torque between **25 - 33 N·m** (**18.4 - 24.3 lb ft**)
3. Nut: Torque between **13.5 - 18 N·m** (**10.0 - 13.3 lb ft**)
4. Allen bolt: Torque between **67 - 89 N·m** (**49.4 - 65.6 lb ft**)
5. Allen bolt: Torque between **54 - 72 N·m** (**39.8 - 53.1 lb ft**)
6. Allen bolt: Torque between **2.6 - 3.1 N·m** (**1.9 - 2.3 lb ft**)
7. Allen bolt: Torque between **38 - 51 N·m** (**28.0 - 37.6 lb ft**)

NOTE: *Tighten the nuts **(1)**, **(2)** and **(3)** in this order.*

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Hydraulic systems - 35

Header reverser drive - 760

CS6080 Machine Standard with
CS6090 Machine Hydrostatic with Fixed Shoe [HCCYCS69AECH02404 -]
CS6090 Machine Hydrostatic with Self Leveling [HCCYCS69AECH02404 -]

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Refrigerant

Refrigerant recovery procedure

1. Ensure that all service equipment hose lines are fitted with shutoff valves or check valves within **30 cm** (**12 in**) of their ends. This will ensure that only minimal quantities of refrigerant escape to the atmosphere when the equipment is disconnected from the A/C system, and that only small amounts of moisture and other contaminants can enter the system.
2. Be sure that all equipment including the connecting hose lines and manifold are compatible with the refrigerant in the system with which you are going to work, and that your equipment has been previously used only with the refrigerant you are about to recover.
3. Be sure that all shutoff valves are tight before connecting them to the A/C system.

   NOTICE: *Shutoff valves should be closed at all times unless they are connected to a vehicle's A/C system, a refrigerant storage container, or another piece of service equipment containing the same refrigerant. This prevents refrigerant from escaping into the atmosphere, damaging the environment and contaminating the equipment.*
4. Connect the extraction or recovery equipment to the A/C system in accordance with the instructions supplied by the equipment manufacturer.
5. Start the recovery process by turning on the recovery equipment and extracting the refrigerant from the A/C system in accordance with the equipment manufacturer's instructions.
6. Continue to extract refrigerant until the A/C system has been brought under a vacuum and there is no refrigerant remaining in the vehicle system.
7. Verify that there is no refrigerant remaining in the system by:

   - Shutting off the recovery unit and observing the system pressure level.
   - Waiting five minutes and observing the system pressure again. If the system pressure has not risen above the atmospheric pressure (0 gauge pressure), all the refrigerant has been removed and you may proceed to step 8.
     If, after five minutes, the system pressure reading has risen above the atmospheric pressure (0 gauge pressure), the extraction/recovery process must be repeated until the pressure reading remains at or below atmospheric pressure for at least two minutes with the recovery equipment shut off, before proceeding to step 8.

8. Close the shutoff valves in the service lines.
9. Remove the service lines from the vehicle system. If the recovery equipment has automatic closing shutoff valves, verify that they are operating properly and do not leak.
10. Determine the amount of lubricant removed from the A/C system during the refrigerant recovery process. Replenish the A/C system with an equal volume of new, correct lubricant.
    Dispose of the used lubricant in accordance with applicable federal, state and local requirements.
11. The system is now ready to be serviced or repaired.

Flushing

Flushing the system is not recommended. In the event of a major compressor failure replacing the compressor output pressure line and filter-drier should collect most of the debris.

Some service or repair operations have been flushing A/C systems to remove dirt or other debris. It has been common practice to use another CFC (chlorofluorocarbon), usually R11, for this purpose. The use of any CFC for such a purpose is prohibited where the CFC may be released into the atmosphere. Methychloroform, a popular flushing agent, is also prohibited.

NOTICE: *Flushing should never be done with compressed air. Certain mixtures of air and* ***R134A*** *are combustible. Using air to flush* ***R134A*** *systems could result in combustion. Shop air also contains moisture which would contaminate the system.*

NOTICE: *Never use CFC-11, R11, CFC-12, R12, CFC-113, R13 or any other substance to flush a* ***R134A*** *system. This leads to lubricant breakdown and system corrosion.*

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SYMBOLS

All symbols used in the wiring diagram are drawn according to the DIN 40719 standard and are marked with a letter and a number.

Each letter represents a group of similar components.

The letters used can be found in following list:

Letter	Component	Example
A	Monitors, prints	Radio, CB, displays
B	Commutator from non-electrical into electrical signals, and vice versa	Sensor, horn, sender elements of water, air, oil temperature and pressure, buzzer
C	Condensers	
D	Accumulator equipment	Accumulators
E	Lighting	All lamps, except warning lights, dashboard lights
F	Safety components	All fuses
G	Generators	Battery, alternator
H	Control components	All control lamps
K	Relays	All relays, flasher unit
L	Inductive components	Coils in relays Motors
M	Motors	Variator motors, ventilator, actuators
N	Amplifier, controller	Voltage controller
P	Measuring instrument	Clock, fuel and water temperature gauge
R	Resistances	Potentiometer, preheating
S	Switch	All switches
T	Transformer	Ignition coils
U	Commutator from electrical signals into other electrical signals	Frequence commutator, converter
V	Semi-conductors	Diodes, transistors, thyristors
W	Wiring looms, antennas	CB and radio antenna, coax wires
X	Connectors	All connectors, plugs
Y	Mechanical components electrically energized	Hydraulic valve, electromagnetic clutches, electrical valve on injection pump.
Z	Electrical filter	Suppressor

The letters used can be found in following list:

SYMBOL	DESCRIPTION
	Electrical motor, actuator
	Lamp
	Double-acting lamp
	Diode
	Led (light emitting diode)
	Fuse
	Socket (female)

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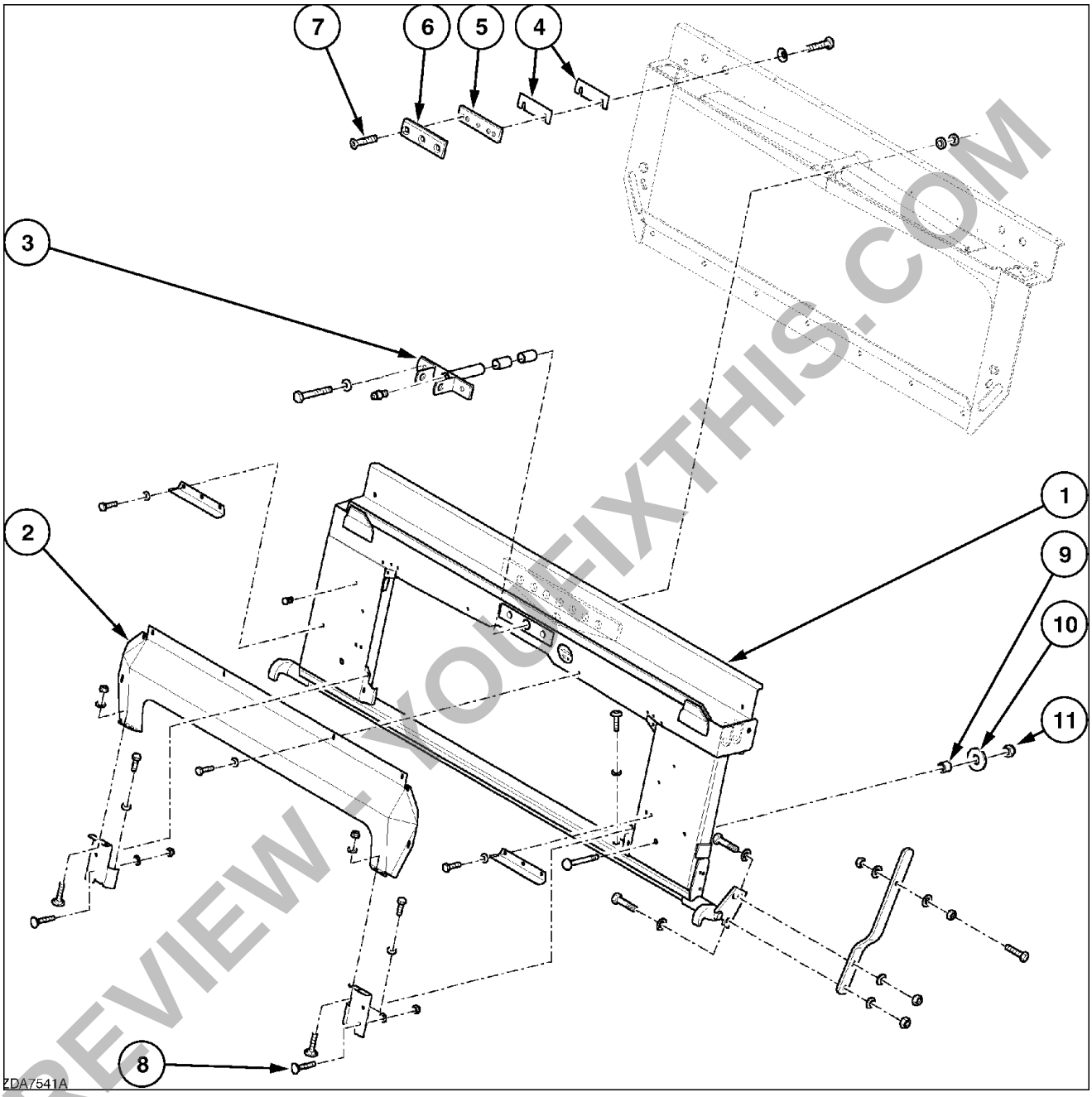
Feeder house cradle - Exploded view

CS6080	
CS6090	



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Cradle

1 Cradle
2 Anti-dust plate
3 Central axle
4 Shim pack
5 Support
6 Sealing
7 Bolt
8 Coach bolt
9 Spacer key
10 Washer
11 Locknut

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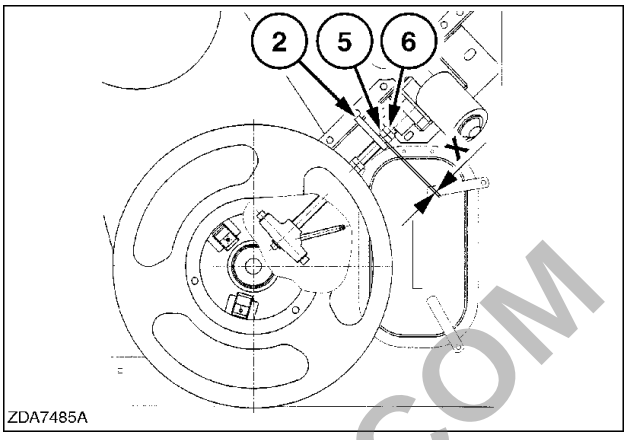
6. Adjust the nut **(5)** so that the play "X" between the stop bracket **(2)** and the nut **(5)** is between **0.5 - 1.5 mm**. Tighten the nut **(6)**.



ZDA7485A 3

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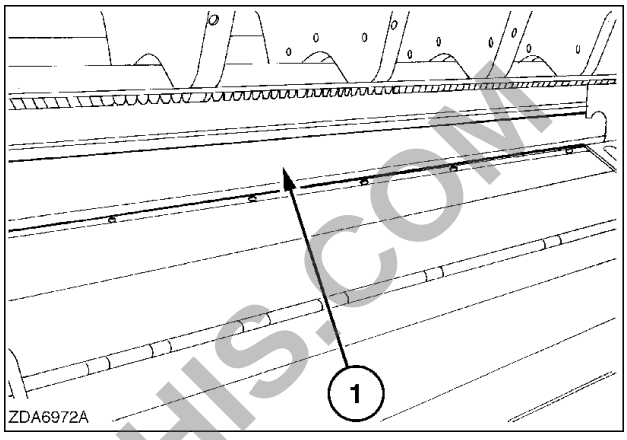
Concave closing plates - Adjust

CS6080	
CS6090	

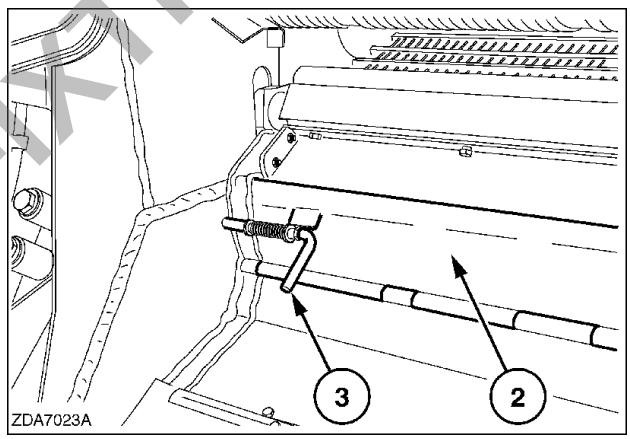
After installation of the concave, it is necessary to adjust the plate **(1)** of the pivot plate.

1. Place the concave in the highest position.



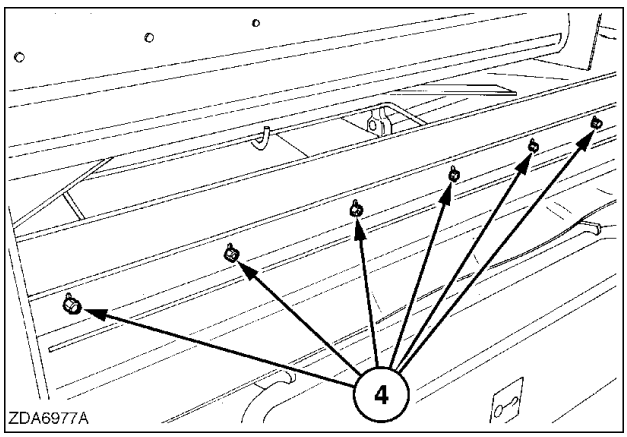
ZDA6972A 1

2. Open the pivot plate **(2)** (slide the left and the right-hand side levers **(3)** towards the centre of the stone trap).



ZDA7023A 2

3. Loosen the bolts **(4)** to adjust the plate.



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(*) See content for specific models

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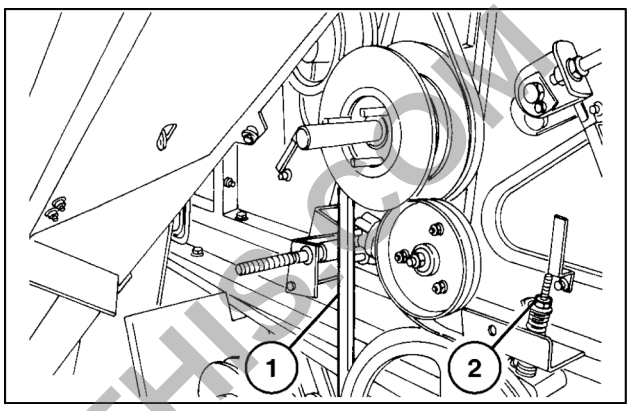
Shaker shoe drive belt - Remove

Shaker drive belt - R./l.

To remove the shaker drive belt, proceed as follows:

1. Remove the cleaning fan variator drive belt. Find the cleaning fan variator drive.
2. Loosen the nut **(2)** to release the belt **(1)**.



LAIL11CS0120A0A 1

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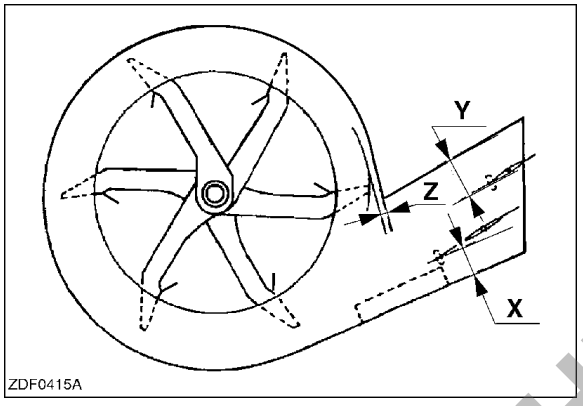
Air flow deflector - Adjust

CS6080	
CS6090	

After the cleaning fan housing is installed in the combine, the position of the deflector plates must be checked. The cleaning fan consist of two horizontal deflector plates and four wind deflectors on the bottom plate.

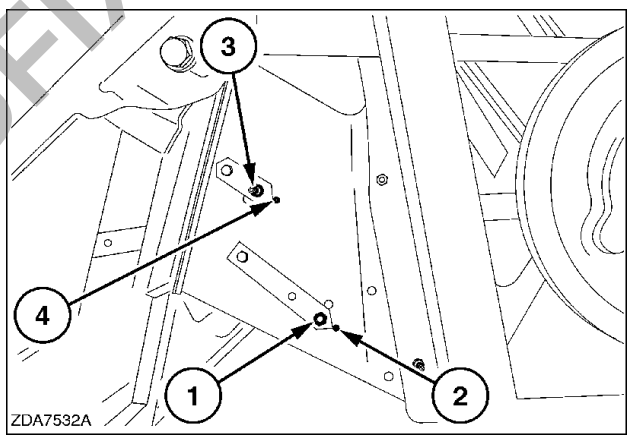


ZDF0415A 1

Horizontal deflector plates:

X	Y	Z
39-41 mm (1-1/2 in - 1-5/8 in)	**119-121 mm (4-11/16 in - 4-3/4 in)**	**4-7 mm (5/32 in - 1/4 in)**

1. Lower deflector plate:
   Loosen the nut **(1)** and adjust the plate in line with the hole **(2)**. (or check the dimension "X" as shown in fig. **1**)
   After adjusting tighten the nut **(1)**.
   Upper deflector plate:
   Loosen the nut **(3)** and adjust the plate in line with the hole **(4)**. (or check the dimension “Y" as shown in fig. **1**)
   After adjusting tighten the nut **(3)**.



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Crop storage / Unloading - 80

Clean grain elevator - 101

CS6080 Machine Standard with
CS6090 Machine Hydrostatic with Fixed Shoe [HCCYCS69AECH02404 -]
CS6090 Machine Hydrostatic with Self Leveling [HCCYCS69AECH02404 -]

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