Wiring harness - Electrical schematic frame 01

CX8030, CX8040, CX8050, CX8060, CX8070, CX8080, CX8090

STARTING

1a series 1540 and above

Code	Description
G-02	Front battery
G-03	Rear battery
K-38	**24 V** Start relay (FPT Cursor engine)
M-01	**12 V** Starter (FPT New Holland engine)
M-29	**24 V** Starter (FPT Cursor engine)
S-52	Battery switch
1	FPT New Holland engine
2	FPT Cursor engine

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ELECTRONIC SYSTEM - Fault code index

Reference	Description	Controller
0000	Communication lost	
0000	Module Offline	
E0085-14	Voting Differences Found Special Instructions	
E1602-04	Bank 1 specific errors - Short circuit / not classifyable - Short to low source	
E1281-05	ASP Bottom Sensor (one) -Line Disconnected	ASP
E1283-03	ASP Bottom Sensor (both) -Shorted to High Source	ASP
E1283-05	ASP Bottom Sensor (both) -Line Disconnected	ASP
E1284-11	ASP Stonedoor Output -Unidentified Failure Code	ASP
D0100-D2011	Multiple Module "Not Detected" or "Communication Lost" Alarms	All
D0100-D2011	Multiple Module "Not Detected" or "Communication Lost" Alarms	All
E0000-03	Stone trap closed sensor , Shorted to high source	CM1
E0000-04	Stone trap closed sensor , Shorted to low source	CM1
E0000-05	Stone trap closed sensor , Line disconnected	CM1
E0001-03	Bin Covers Open Sensor Shorted To High Source	CM1
E0001-04	Bin Covers Open Sensor Shorted To low Source	CM1
E0001-05	Bin Covers Open Sensor Line Disconnected	CM1
E0002-03	Swath Plate Position Shorted To High Source	CM1
E0002-04	Swath Plate Position Shorted To Low Source	CM1
E0002-05	Swath Plate Position Line Disconnected	CM1
E0003-03	Unload Tube Cradled Shorted To High Source	CM1
E0003-03	Unload Tube Cradled Shorted To High Source	CM1
E0003-04	Unload Tube Cradled Shorted To Low Source	CM1
E0003-04	Unload Tube Cradled Shorted To Low Source	CM1
E0003-05	Unload Tube Cradled Line Disconnected	CM1
E0003-05	Unload Tube Cradled Line Disconnected	CM1
E0004-03	Fdr Reverser Disengaged Shorted To High Source	CM1
E0004-04	Fdr Reverser Disengaged Shorted To Low Source	CM1
E0004-05	Fdr Reverser Disengaged Line Disconnected	CM1
E0005-03	Straw Walker Protection Shorted To High Source	CM1

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Wiring harness - Component Diagram 00

CONNECTOR X001

CONNECTOR X001 CAB MAIN/CONSOLE			
POS	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	1212 (YE)	X012-CM-3 J1-17, NOT USED	CX: **Wiring harness - Electrical schematic frame 18 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 20 (A.30.A)**
2	051 (RD)	B(+) FOR RHM	CX: **Wiring harness - Electrical schematic frame 29 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 32 (A.30.A)**
3	108 (OR)	IGNITION B(+) RHM	CX: **Wiring harness - Electrical schematic frame 25 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 28 (A.30.A)**
4	1225 (YE)	CAN 2 HI	CX: **Wiring harness - Electrical schematic frame 30 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 33 (A.30.A)**
5	1224 (GN)	CAN 2 LO	
6	127 (YE)	B(+) FOR RHM	
7	128 (GN)	GROUND FOR RHM	
8	129 (YE)	B(+) FOR RHM	
9	130 (GN)	GROUND FOR RHM	
10	135 (RD)	B(+) FOR RHM	CX: **Wiring harness - Electrical schematic frame 29 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 32 (A.30.A)**
11	136 (BK)	GROUND FOR RHM	
12	122 (BK)	GROUND FOR SPLICE BLOCK A	CX: **Wiring harness - Electrical schematic frame 25 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 28 (A.30.A)**
13	147 (YE)	SIGNAL TO SPLICE	CX: **Wiring harness - Electrical schematic frame 18 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 20 (A.30.A)**
14	118 (YE)	SIGNAL TO SPLICE	
15	112 (YE)	SIGNAL FOR STRAW ELEVATOR ENGAGE	CX: **Wiring harness - Electrical schematic frame 16 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 17 (A.30.A)**
16	-	-	-
17	113 (YE)	SIGNAL FOR NEUTRAL SWITCH	**Wiring harness - Electrical schematic frame 09 (A.30.A)**
18	093 (WH)	ACTUATION FOR RHM	
19	225 (YE)	X018-CM-1 JI-17, NOT USED	CX: **Wiring harness - Electrical schematic frame 18 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 20 (A.30.A)**
20	-	-	-
21	1744 (YE)	AUTO GUIDANCE SWITCH S-78	CX: **Wiring harness - Electrical schematic frame 31 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 55 (A.30.A)**
22	1745 (YE)	AUTO GUIDANCE SWITCH S-78	
23	317 (BK)	NEUTRAL LOCK SOLENOID GROUND	**Wiring harness - Electrical schematic frame 07 (A.30.A)**
24	1329 (OR)	+12V F-01 (K-08 SWITCHED)	CX: **Wiring harness - Electrical schematic frame 45 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 49 (A.30.A)**

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Hydraulic pump - General specification

MAIN HYDRAULIC PUMP

Type	Variable Flow Closed Centre Load Sensing Piston Pump
Minimum Output @ engine rated speed	**114 Ltr/min** **30 US gal/min**
Standby Pressure	**21 bar** (**305 psi**)
Maximum System Pressure	**207 bar** (**3000 psi**)
Flow to Steering Motor	**36 Ltr/min** **9.5 US gal/min**
Steering Pressure	**186 bar** (**2700 psi**)

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ENVIRONMENT CONTROL Air-conditioning system - Torque

Hose and Tubing Flare Connection Torque

Metal Tube Outside Diameter	Thread and Fitting Size	Steel Tubing* Torque Nm (ft. lbs.)	Aluminum Copper Tubing* Torque Nm (ft. lbs.)	Nominal Torque Wrench Span
1/4	7/16	14-20 (10-15)	7-9 (5-7)	5/8 in
3/8	5/8	41-47 (30-35)	15-18 (11-13)	3/4 in
1/2	3/4	41-47 (30-35)	15-18 (11-13)	7/8 in
5/8	7/8	41-47 (30-35)	24-29 (18-21)	1-1/16 in
3/4	1-1/16	41-47 (30-35)	31-38 (23-28)	1-1/4 in

* If a connection is made with steel to aluminum or copper, use the lower torque specification.
** Use steel tubing torque only when both ends of connection are steel.

Hose and Tubing O ring Connection Torque

Metal Tube Outside Diameter	Thread and Fitting Size	Torque N·m (ft. lbs.)
1/4	7/16	14-20 (10-15)
3/8	5/8	14-20 (10-15)
1/2	3/4	33-39 (24-29)
5/8	7/8	35-41 (26-31)
3/4	1-1/16	41-47 (30-35)

ENVIRONMENT CONTROL Air-conditioning system - Special tools

Part No.	Description
FNH00855	Refrigerant Gas Leak Detector
OEM1598	R-134 Recovery/Recycle and Recharging Station
OEM1662	Thermometer
OEM1419	Service Gauge Set - 134A
FNH02343B	Sanko/Sanden Compressor Tools

ENVIRONMENT CONTROL Air-conditioning system - General specification

J639 Safety and containment of refrigerant for mechanical vapor compression systems used for mobile air conditioning systems.
J1989 Recommended service procedure for the containment of R-12.
J1991 Standard of purity for use in mobile air conditioning systems.
J2099 Standard of purity for recycled R-134a for use in a mobile air conditioning system.
J2196 Service hose for automotive air conditioning.
J2197 R-134a service hose fittings for automotive air conditioning service equipment.
J2211 Recommended service procedure for the containment of R -134a.
J2219 Committee draft: Concern to the mobile air conditioning industry.

Related SAE Standards:

J1990 Recovery and recycle equipment for mobile air conditioning systems.
J2209 R-12 recovery equipment for mobile air conditioning systems.
J2210 R-134a recycling equipment for mobile air conditioning systems.
These and other SAE standards may be obtained from:
SAE Customer Service 400 Commonwealth Drive Warrendale, Pa 15096-0001

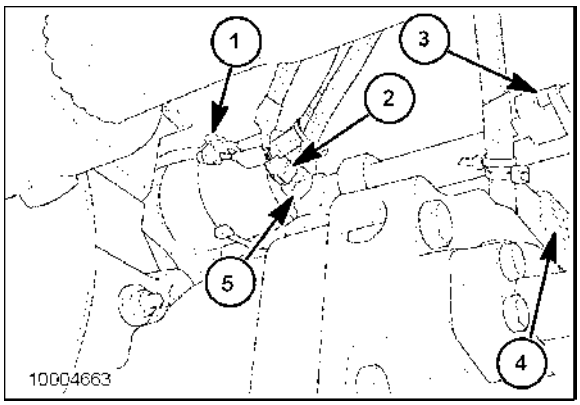
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CLEANING Tailings return system K.62.C
RESIDUE HANDLING Straw chopper K.64.C
RESIDUE HANDLING Spreader K.64.D
RESIDUE HANDLING Chaff blower K.64.F
RESIDUE HANDLING Chaff spreader K.64.G
RESIDUE HANDLING Positive straw discharge (PSD) K.64.H
UNLOADING Grain unloading K.72.B
PROTECTION SYSTEMS Reversing system K.90.C
PROTECTION SYSTEMS Stone trapping K.90.E

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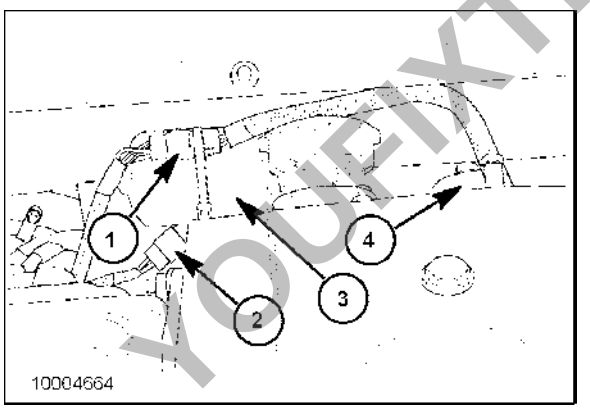
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Transmission Shift Motor and Transmission Shift Position Sensor

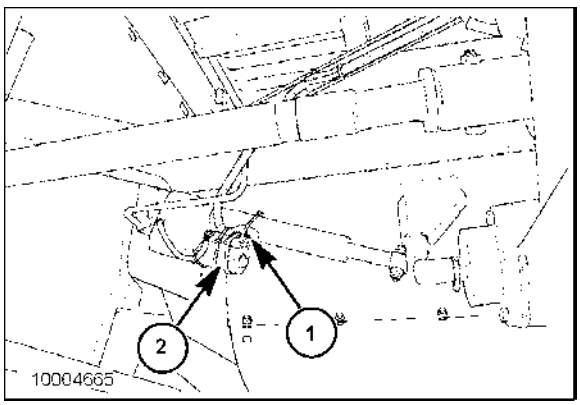
1. LF W/H, Connector X093 - Shift Position
2. LF W/H, Connector X094 - Trans Shift Motor
3. Transmission Shift Motor - M02
4. Transmission Shift Position Sensor - B37



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Shoe Leveling Actuator

1. LF W/H, Connector X088 - Shoe Motor
2. Shoe Leveling Actuator - M03



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LEFT SIDE

Front Frame W/H To Lower Frame W/H

1. Connector X023

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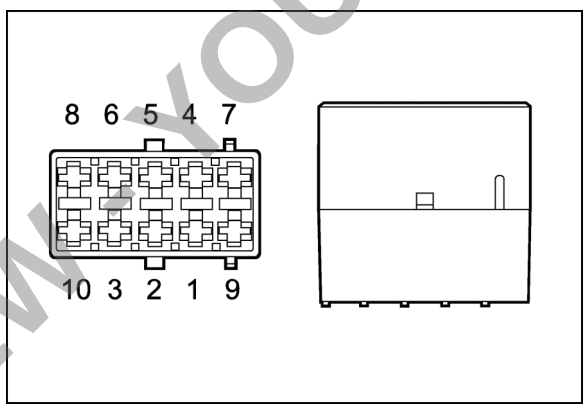
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Wiring harness - Component diagram 13

CONNECTOR X130

CONNECTOR X130 REVOLVING FLASH LIGHT SWITCH S-41			
POS	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	-	-	-
2	172 (OR)	REVOLVING FLASH LIGHT SWITCH IGNITION B+	CX: **Wiring harness - Electrical schematic frame 39 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 43 (A.30.A)**
3	166 (YE)	REVOLVING FLASH LIGHT SWITCH SIGNAL	
4	-	-	-
5	-	-	-
6	-	-	-
7	283 (PU)	REVOLVING FLASH LIGHT SWITCH BACKLIGHTING	CX: **Wiring harness - Electrical schematic frame 39 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 43 (A.30.A)**
8	-	-	-
9	297 (BK)	REVOLVING FLASH LIGHT SWITCH GROUND	CX: **Wiring harness - Electrical schematic frame 39 (A.30.A)** CR: **Wiring harness - Electrical schematic frame 43 (A.30.A)**
10	-	-	-

NOTE: *For the wiring color code refer to,* ***ELECTRICAL POWER SYSTEM - Electrical standard (A.30.A)****.*



EATON_25-13936 1

X130
REVOLVING FLASH LIGHT SWITCH

NOTE: *For connector service tools refer to,* ***Wiring harness - Special tools 2 (A.30.A)****.*

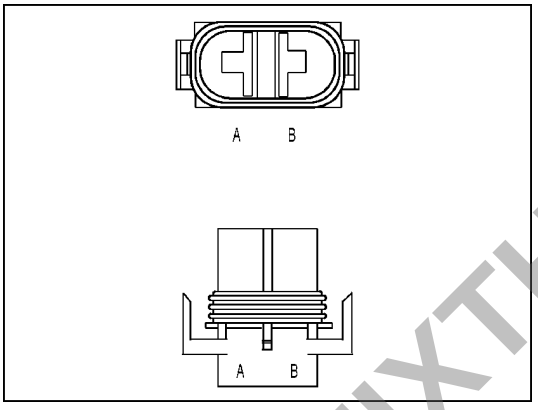
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CONNECTOR X345 (CR ONLY)

CONNECTOR X345 LEFT FRONT SHIELD LIGHT E-42			
POS	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
A	2005 (PU)	POWER FROM UNDER SHIELD LIGHT SWITCH S-63	**Wiring harness - Electrical schematic frame 42 (A.30.A)**
B	2017 (BK)	TO FRAME GROUND 2	

NOTE: *For the wiring color code refer to,* ***ELECTRICAL POWER SYSTEM - Electrical standard (A.30.A)****.*



X106 6

X345

LEFT HAND FRONT SHIELD LIGHT

NOTE: *For connector service tools refer to,* ***Wiring harness - Special tools 4 (A.30.A)****.*

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Wiring harness - Electrical schematic frame 08

CX8030, CX8040, CX8050, CX8060, CX8070, CX8080, CX8090

DRIVES

8a series 1540 to 1599

Code	Description
B-46	Hydrostatic motor temperature
H-08	Back up alarm
L-05	Pressure release
L-26	Rear wheel assist
L-27	Dual range
S-49	Brake fluid level switch
S-55	Left-hand brake wear switch
S-56	Right-hand brake wear switch

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LIGHTING

40b series 1600 to 1659

Code	Description
E-21	Left-hand header light
E-22	Right-hand header light
E-23	Left-hand lower work light
E-24	Right-hand lower work light
E-29	Unload tube light
E-30	Grain tank light
E-38	Center work light
F-30	Header work lights fuse
F-50	Side lights fuse
F-54	Lower work lights fuse
K-22	Header work lights relay
K-30	Lower work lights relay
K-32	Unload tube light relay

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CLEANING

22c series 1660 and above

Code	Description
B-02	Lateral inclination
B-06	Left hand returns RPM
B-08	Clean grain elevator RPM
B-19	Left hand rotor loss
B-20	Right hand rotor loss
B-39	Right hand returns RPM

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HEATING-VENTILATION-AIR CONDITIONING (HVAC)

53c series 1660 and above

Code	Description
A-09	HVAC control module
F-17	Separator blower fuse
F-18	Main blower fuse
F-19	Air Conditioning (A/C) clutch fuse
K-09	Separator blower relay
K-10	A/C clutch relay
K-11	Main blower relay low
K-12	Main blower relay medium
K-13	Main blower relay high
L-07	A/C clutch
M-17	Main blower (manual A/C)
M-18	Separator blower
S-47	A/C high pressure

3 Manual A/C

4 Automatic Temperature Control (ATC)

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Fuse and relay box CCM1 relay - Testing

NOTE: *The batteries must be fully charged and all connections clean and tight. Use a multimeter (DVOM) for these tests.*

⚠ CAUTION ⚠

DO NOT use a self-powered test light for any of these tests. Use of a self-powered light can cause damage to components in this system.

M979

⚠ WARNING ⚠

Before performing any of the electrical tests, be sure all operating controls are in neutral or park lock position. This will eliminate accidental movement of the machine or start-up of power driven equipment. Failure to comply could result in death or serious injury.

M980

N°	Test Point	Expected Result	Other Result (Possible Cause)
1	**Check** Check for **12 volts** at CCM-1 Power Relay (pin 3).	**Result** **12 volts**. **Action** If good reading, continue with next step.	**Action** Open circuit 12 (RD) between CCM-1 Power Relay (pin 3) and Fuse #40. Blown Fuse #40.
2	**Condition** Ignition ON. **Check** Check for **12 volts** at CCM-1 Power Relay (pin 1).	**Result** **12 volts**. **Action** If good reading, continue with next step.	**Action** Open circuit 95 (OR) or 96 (OR) between Ignition Switch connector X068 (pin 6) and CCM-1 Power Relay (pin 1). **12 volts** not available from Ignition Switch connector X068 (pin 6), refer to Ignition Switch test on page 244.
3	**Check** At CCM-1 Power Relay, ground (pin 2) and check for **12 volts** at CCM-1 Power Relay (pin 5).	**Result** **12 volts**. **Action** If good reading, CCM-1 Power Relay is operating properly. Continue with next step.	**Action** Faulty CCM-1 Power Relay.
4	**Condition** Ignition OFF. **Check** Check resistance of circuit 105 (BK) between CCM-1 Power Relay (pin 2) and CCM-2 Power Relay (pin 2).	**Result** Less than **1 ohm** resistance. **Action** If good reading, relay is operating properly. See Service Manual for testing of CCM-1.	**Action** Open circuit 105 (BK) between CCM-1 Power Relay (pin 2) and CCM-2 Power Relay (pin 2).

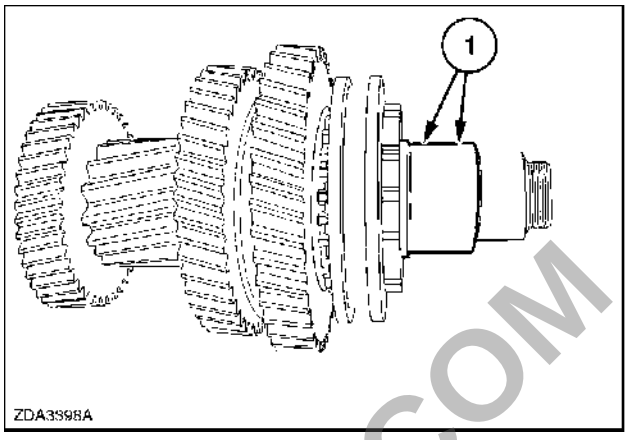
Fuse and relay box CCM2 relay - Testing

NOTE: *The batteries must be fully charged and all connections clean and tight. Use a multimeter (DVOM) for these tests.*

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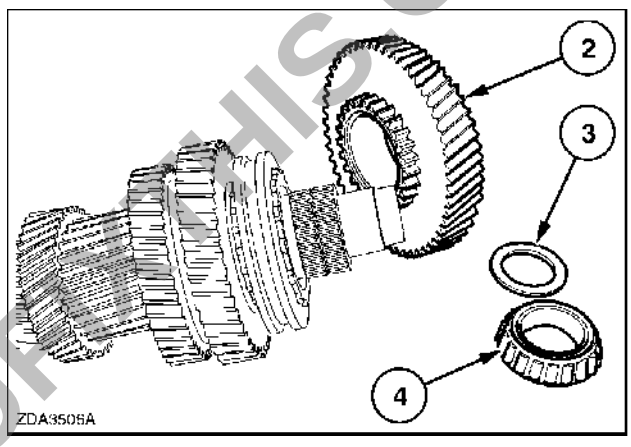
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4. Install the needle bearings **(1)**.



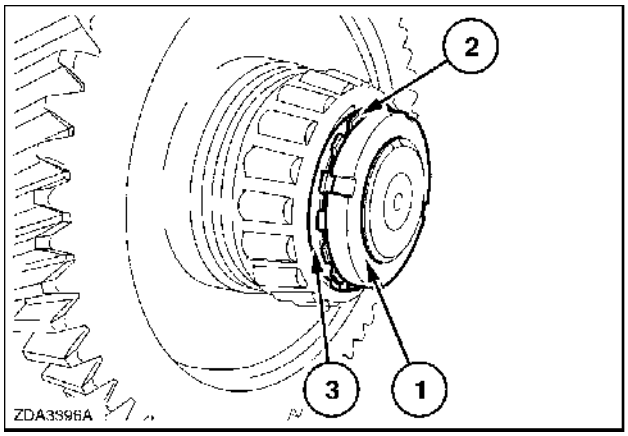
ZDA3398A 4

5. Install the gear **(2)**.
Install the washer **(3)** and heat the bearing **(4)** to **80 °C** (**176 °F**) and install it on the drive shaft.



ZDA3506A 5

6. Install the washer **(3)**.
Install the lock washer **(2)**.
Install the nut **(1)** and tighten it to a torque of **150 - 170 Nm** (**111 - 125 lb ft**).
Secure the nut **(1)** by bending a lip of the lock washer in one of the notches of the nut.



ZDA3396A 6

Next operation:
Shaft Drive shaft - Install (C.20.B).

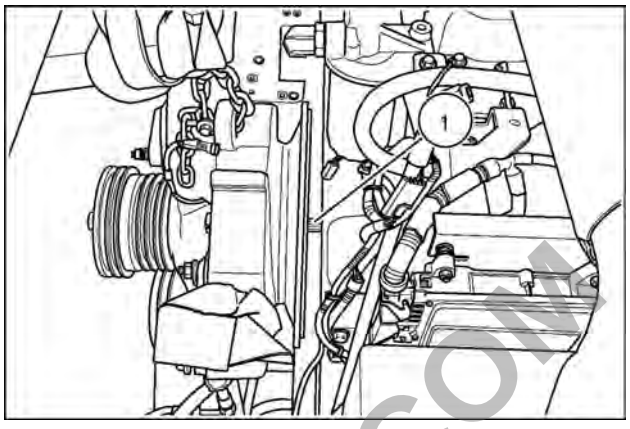
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NOTE: *The engine gearbox weighs approximately* ***246 kg*** *(****542.3 lb****).*

NOTE: *Make sure that the gearbox is properly supported. Too much or too little tension may cause the gearbox spline shaft* ***(1)*** *to bend.*

34. Securely attach the engine gearbox to an adequate lifting device. Remove the bolts and carefully remove the gearbox from the combine.

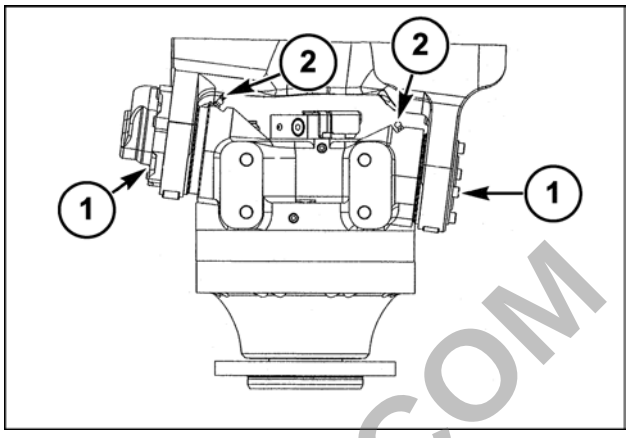


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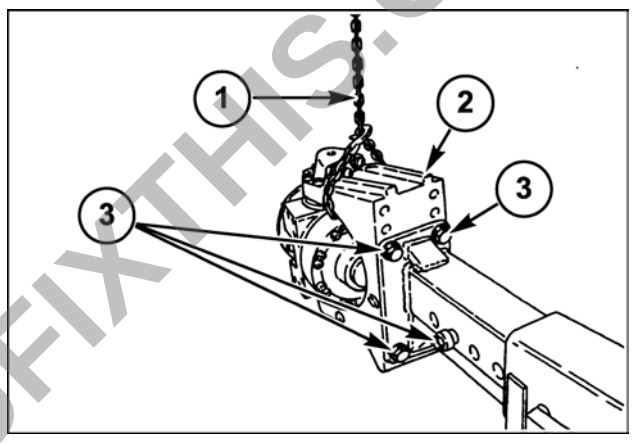
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7. Apply **LOCTITE® 271** to the M10 socket head cap screws. Install and torque the screws to **75 - 91 Nm** (**55 - 67 lb ft**).
With the C-frame mounted to the motor use **NEW HOLLAND AMBRA GR-9 MULTI-PURPOSE GREASE** to lubricate the bushings through the grease zerks **(2)** until the grease protrudes from the seal area.



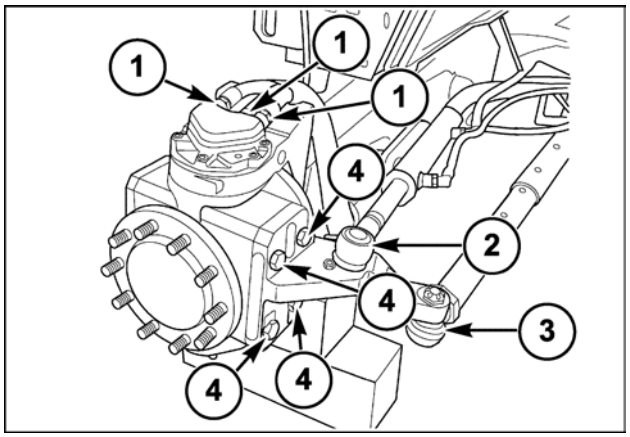
20041977 6

8. Use a hoist and a chain **(1)** to lift the motor to the axle flange. Mount the motor and C-frame **(2)** to the axle with four M24 bolts **(3)** and torque to **800 Nm** (**590 lb ft**).



20015305A5 7

9. Attach the steering knuckle to the wheel motor and torque the bolts **(4)** to **577 - 678 Nm** (**426 - 500 lb ft**).
10. Connect the hydraulic lines **(1)** to the wheel motor.
11. Install the steering cylinder **(2)** and crossover tube **(3)** if they were removed.



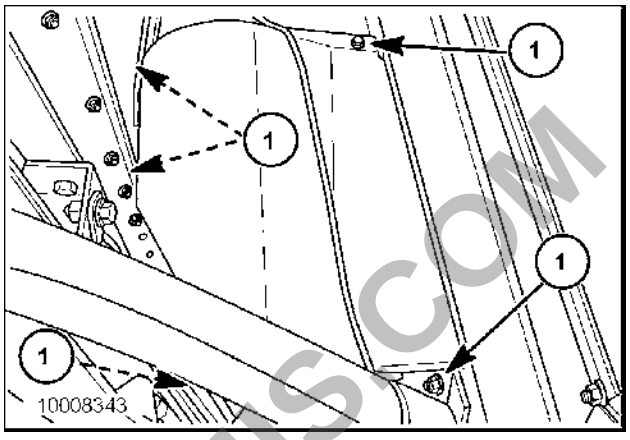
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Heater Water valve - Remove

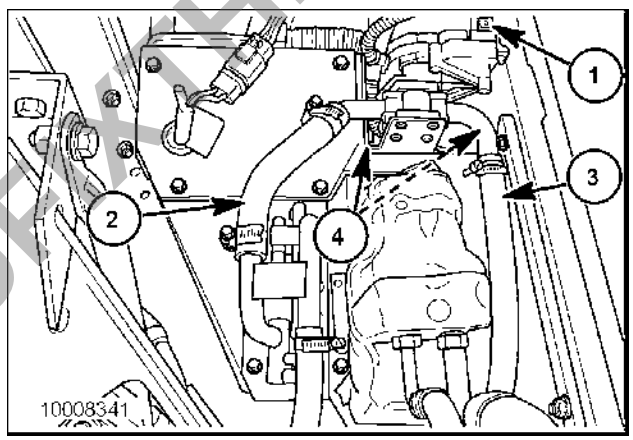
1. Shut the heater core supply and return valves located at the engine.
2. Turn out the five cap screws holding the ventilation system shield in place. Lift the shield from the combine.



10008343_1067 1

3. Detach electrical connector **(1)** Disconnect hoses **(2)** and **(3)**. Turn out mounting cap screws **(4)** Lift the water valve from the unit.

NOTE: *When removing heater hoses, residual coolant will drain.*



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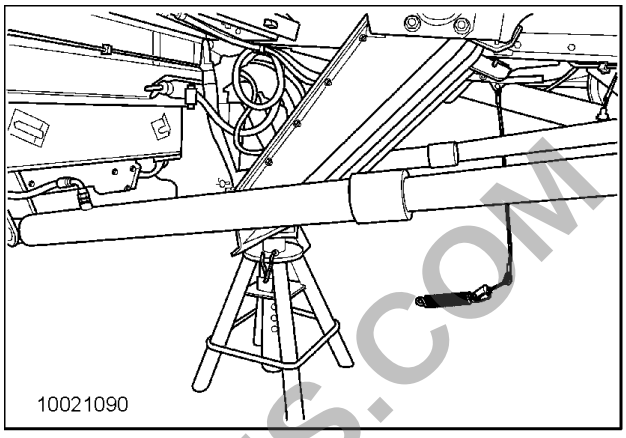
FUNCTIONAL DATA
FEEDING Feeder housing
Static description 9
CR9060, CR9060 Elevation, CR9070 Elevation, CR9080, CR9080 Elevation, CR9090 Elevation
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Housing Rear floor - Replace

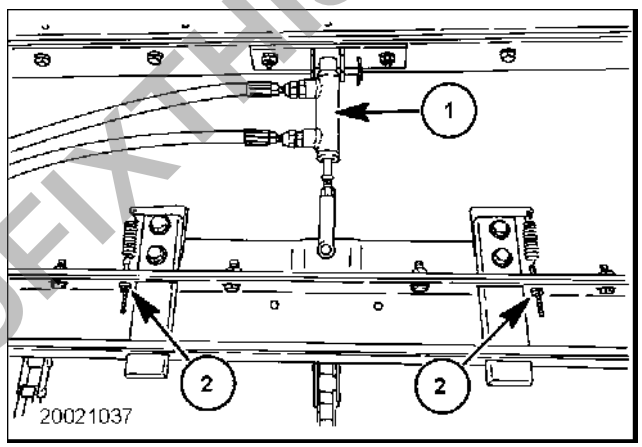
CR9060, CR9060 Elevation, CR9070 Elevation, CR9080, CR9080 Elevation, CR9090 Elevation

1. Lower the stone door using the procedure described in **Stone trap door - Lower (K.90.E)**.



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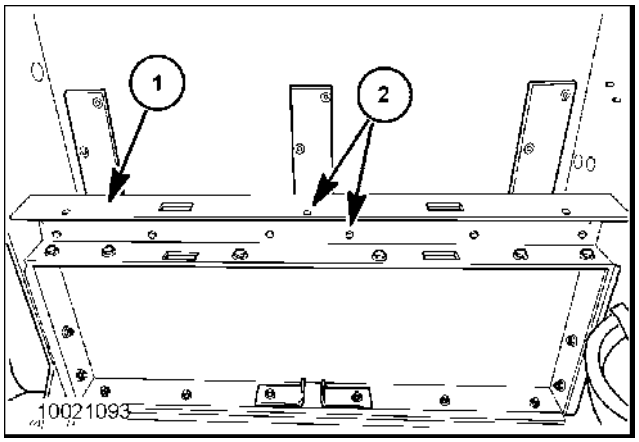
2. Remove the stone ejection system actuating cylinder **(1)** using the procedure described in **Unlatching system Cylinder - Remove (K.90.E)**. Position the cylinder out of the way.
3. Remove the nuts **(2)** which secure each side of the latching bracket to the straw elevator frame. Remove the bracket from the straw elevator frame.



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4. Remove the nine bolts **(1)** which secure the front most wear plate **(2)** to the straw elevator frame. Remove the wear plate from the straw elevator.

NOTE: *Illustration shows the straw elevator chain removed from straw elevator.*



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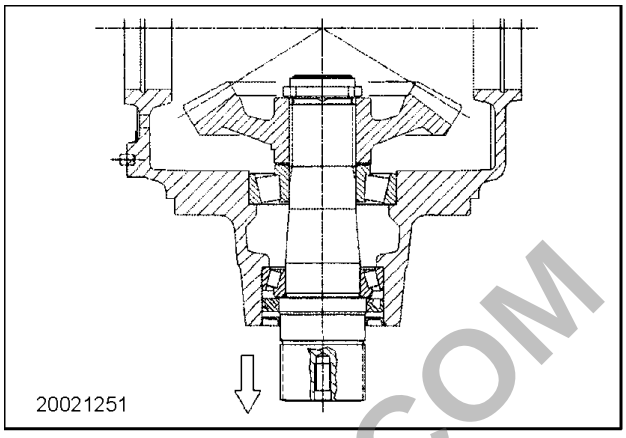
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16. Place the shims and the crown gear onto the output shaft.

NOTE: *Be sure to install the same number of shims as removed.*

17. Coat the threads of the output shaft with **LOCTITE 270** (**OMNIFIT 200M**/ **PERMABOND 118**). Thread and tighten a new stake nut onto the output shaft to hold the assembly in place. Use special tool **FNH00089**. DO NOT stake the nut at this time.

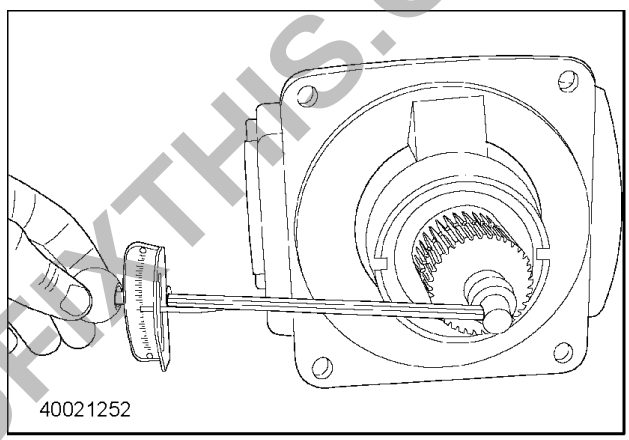


20021251 11

18. Use a torque meter to the check rolling resistance of the output shaft. The rolling resistance should be **1 - 3 in** (**1 - 3 in-lb**).

19. If the rolling torque is not as specified, loosen or tighten the stake nut as necessary.

20. Repeat steps **3** through **9** to install the input shaft back into the gear box case.

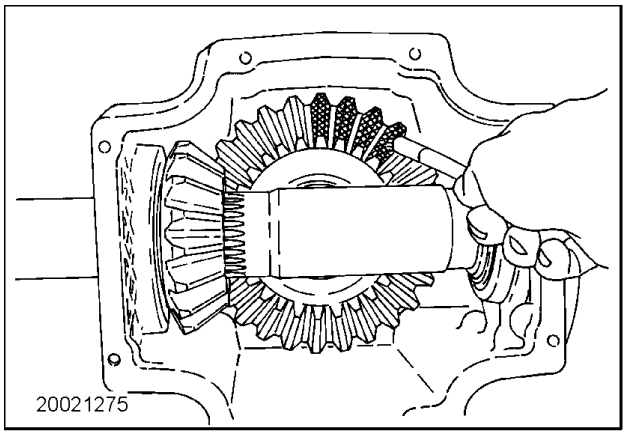


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21. To check the gear contact pattern, apply gear marking paste or Prussian blue onto four or five teeth of the crown gear.

NOTE: *There should be NO LOAD placed on the gears while checking contact pattern.*

22. Slowly rotate the left side of the input shaft counterclockwise until a contact pattern appears on the other teeth of the crown gear. Rotate the input shaft clockwise until the marking paste makes a pattern on the opposite side of the crown gear teeth.



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Bearing - Replace

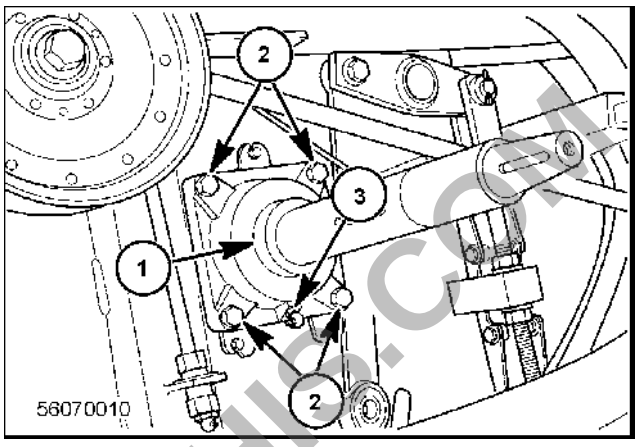
CR9060, CR9060 Elevation, CR9070 Elevation, CR9080, CR9080 Elevation, CR9090 Elevation

Left-hand side

1. Remove the drive belts and sheaves as described in **SEPARATING Discharge beater - Remove (K.42.G)**.
2. Clean dirt and corrosion from the shaft.
3. Remove the lock collar **(1)**.
4. Remove the four bolts **(2)** together with the lock washers and the nuts. Slide the bearing housing from the shaft.

NOTE: *The bearing alone is not a replaceable component; the bearing and housing are replaced as a set.*

5. Remove the grease fitting **(3)** from the housing and install it on the new bearing housing, oriented forward, as shown.
6. Lubricate the bearing inner diameter with **LOCTITE® 767 ANTI-SEIZE** compound. Slide the bearing on the shaft and orient the shaft with the grease fitting downwards and pointing forward.
7. Install the four bolts **(2)** together with the lock washers and the nuts. Tighten and torque to **85 - 105 Nm** (**63 - 77 lb ft**).
8. Install and adjust the sheaves and the belts as described in **SEPARATING Discharge beater - Install (K.42.G)**.
9. Purge and grease the bearing before operation with **NEW HOLLAND AMBRA GR-9 MULTI-PURPOSE GREASE**. Clean excess grease from the bearing and the fitting.



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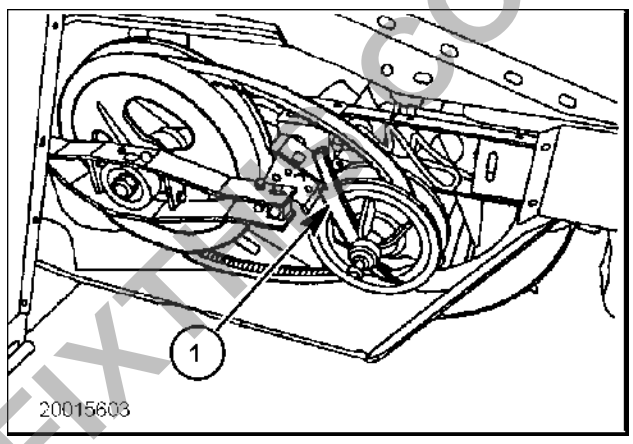
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Fan variator Belt - Remove

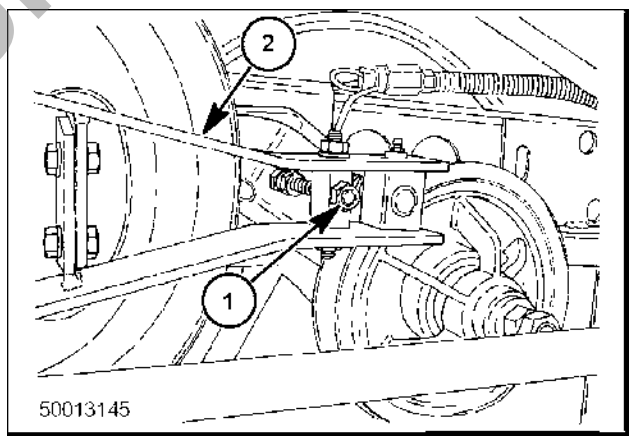
CX8030, CX8040, CX8050, CX8060, CX8070, CX8080, CX8090, CR9060, CR9080

1. Start the engine and engage the threshing system.
2. Set the cleaning fan speed to maximum.
3. Stop the engine.
4. If not already removed, remove the fan shields on the right side of the combine to gain access to the variator. See **Fan - Remove (K.62.B)** for shield removal procedure.
5. Place a wedge **(1)** between the driven sheaves to keep the sheave halves separated under spring tension.



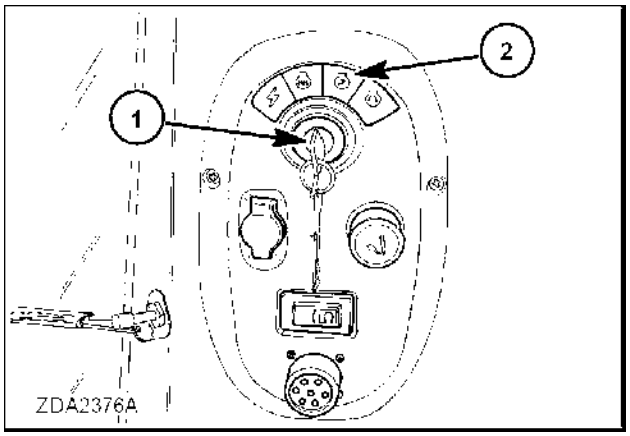
20015603 1

6. Remove the minimum speed adjusting nut **(1)** on the variator arm **(2)**.



50013145 2

7. Enter the cab and turn the ignition key **(1)** to the “ON" (Contact) position **(2)** Do not start the engine.



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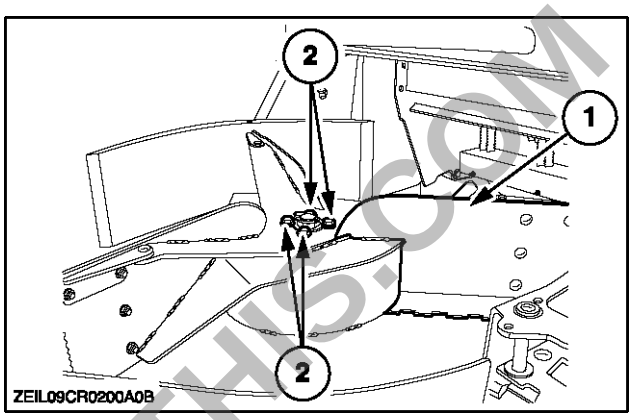
Blade disc - Install

CR9090 Elevation

Prior operation:

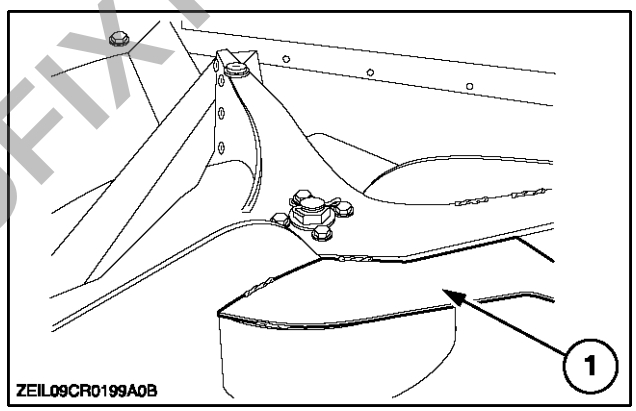
NOTE: *Pay attention to the rotating direction of the blade disc **(1)** and the hydraulic motor when installing the blade disc.*

1. Install the blade disc **(1)** on the hydraulic motor flange.
2. Install the bolts and washers **(2)** on the blade disc **(1)**.



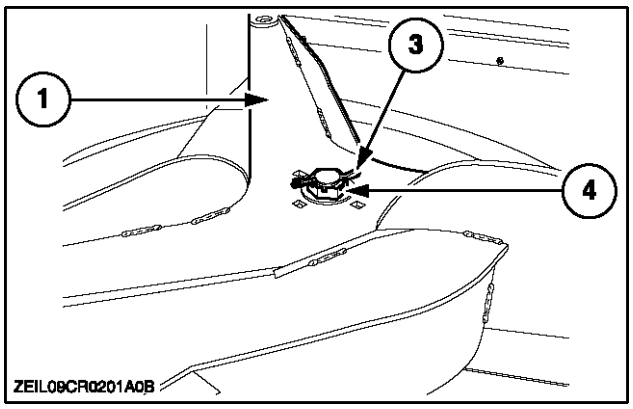
ZEIL09CR0200A0B 1

3. Block the blade disc **(1)** with a wooden beam to prevent the disc from rotating.



ZEIL09CR0199A0B 2

4. Tighten the castellated nut **(4)** to **180 N·m** (**133 lb ft**).
5. Remove the wooden beam.
6. Lock the castellated nut **(4)** with the cotter pin **(3)**.



ZEIL09CR0201A0B 3

Next operation:
To complete the Opti-Spread™ system with the top plate and the swath plate, follow steps **13** to **14** in **Positioning system Actuator - Install (K.64.D)**.

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