Operator's Manual

Maintenance

FENDT Katana 85

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Marktoberdorf
FENDT is a worldwide brand of AGCO

Original Operator's Manual

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1.1 Introduction

1.1.1 Safety instructions: Introduction

Operator's Manual

NOTE:
This Operator's Manual is published and distributed across various markets. The availability of the components referred to - whether as part of the standard equipment or as an accessory - can vary depending on the country or region concerned. If you would like to know what equipment features are available in your region, you should contact your FENDT dealer.

Under normal conditions, this Operator's Manual should enable the owner and operator to operate the forage harvester safely. If these instructions are followed, the forage harvester, like all FENDT products, will provide faithful service for many years.

The FENDT dealer's commissioning at the operator's site ensures that you understand both the operating and service instructions. You should contact your FENDT dealer if you do not understand any parts of this Operator's Manual. It is essential that these instructions are understood and observed.

The instructions do not contain all of the safety and operating instructions for the attachments and accessories that can be fitted at the time of delivery and after delivery of the forage harvester. It is imperative that the operator understands and uses the Operator's Manual relative to these attachments and the accessories.

IMPORTANT:
This manual must always be kept in the forage harvester. You can obtain a copy of this Operator's Manual from your FENDT dealer.

This chapter of the Operator's Manual contains a description of specific safety-related standard situations that can arise when operating the forage harvester and during normal maintenance. You are also given all of the information required on the correct behavior to adopt in these situations.

This chapter is supplementary to the safety instructions contained in other chapters of this Operator's Manual.

Depending on the attachments used and the working conditions on-site or in the maintenance area, additional precautionary measures may need to be taken. FENDT has no direct influence on the commissioning, operation, inspection, lubrication or maintenance of the forage harvester. YOU are therefore responsible for the adoption of appropriate safety measures in the areas concerned.

WARNING:
Before using the forage harvester, the operator must understand the instructions contained in this chapter. These regulations must always be adhered to when work is carried out.

Maintenance, spare parts, accessories and operating conditions

Daily maintenance should become a habit. Record the operating hours in a logbook.

Only FENDT original spare parts must be used. FENDT dealers supply only original parts and can advise on how to fit and use them. Using lower quality parts can cause serious damage. Customers are advised to acquire spare parts from an authorized FENDT dealer only. Likewise, only accessories that are specially adapted to the forage harvester may be used.

Because operating conditions vary so greatly, the information provided by the manufacturer in its publications in respect of the performance or use of its machines can never claim to be entirely complete or definitive, nor can the manufacturer accept liability for losses or damage caused by such information or any errors or omissions.

If the forage harvester is to be used in unusual conditions that could result in damage, the FENDT dealer should be consulted for special instructions so that the warranty is not invalidated.

4. Lift the linkage by approx. 80% and attach the hydraulic motor to the mounting carriage.

Fig. 11

5. Remove the hydraulic motor from the gearbox, loosening the two cams using the hex.

Fig. 12

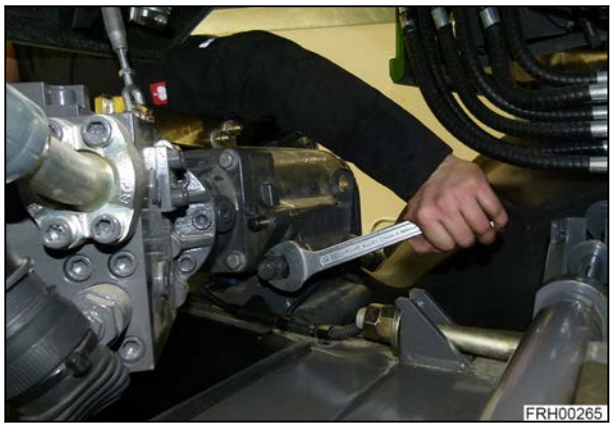


Fig. 13

6. Pull the hydraulic motor away from the gearbox.

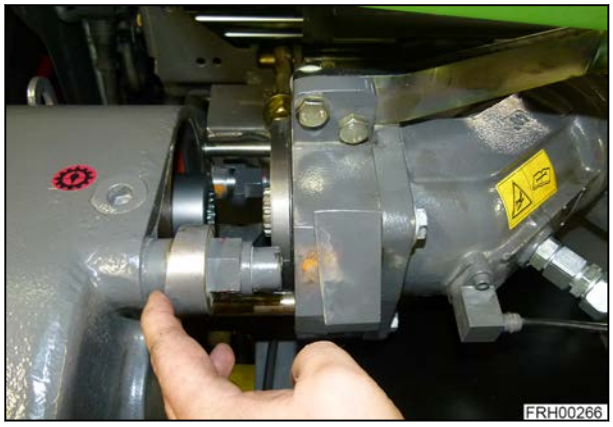


Fig. 14

3. Block the cylinder with M12 bolt in the frame hole.

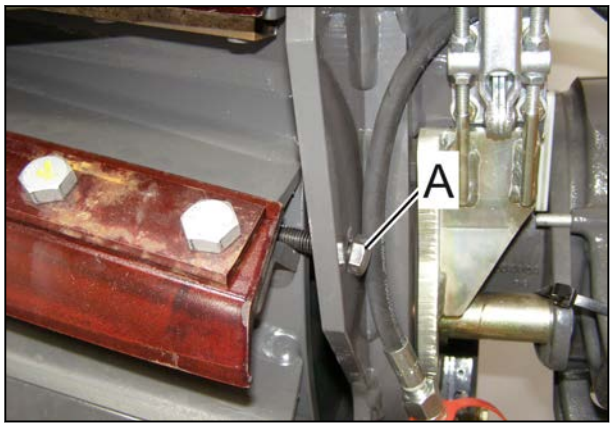


Fig. 42

4. Start on one side and remove every second knife.

5. Then remove every second knife on the other side, etc.

Fig. 43

2.4.2.2 Install knives

Procedure

1. Press softkey for maintenance position  , shear bar now travels back to maintenance position.

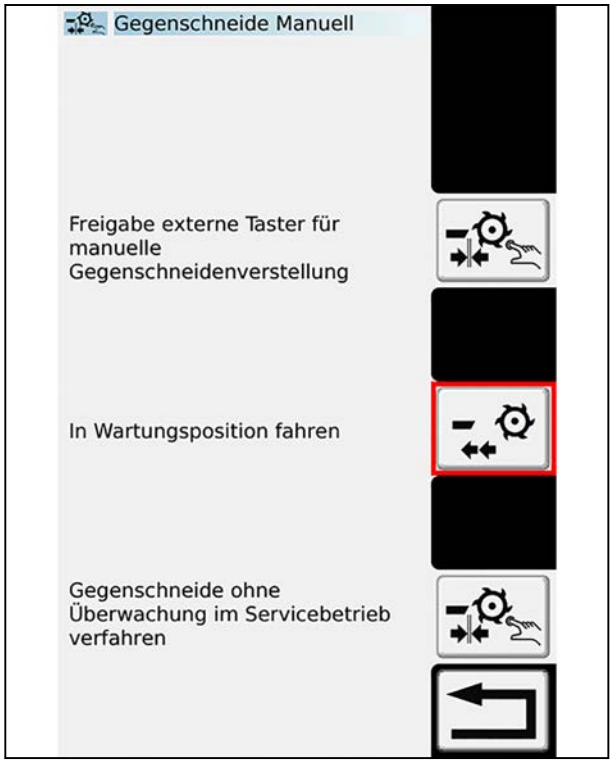


Fig. 44

2.4.5 Adjust drum base

Procedure

1. Press drum base against the cutting cylinder in the middle with an assembly lever.

Fig. 68

2. Tighten both wedges on the left and right by hand to be free of play.

Fig. 69

3. Loosen the nuts again by seven rotations; pull back both wedges until there is play between the drum base and cutting cylinder.

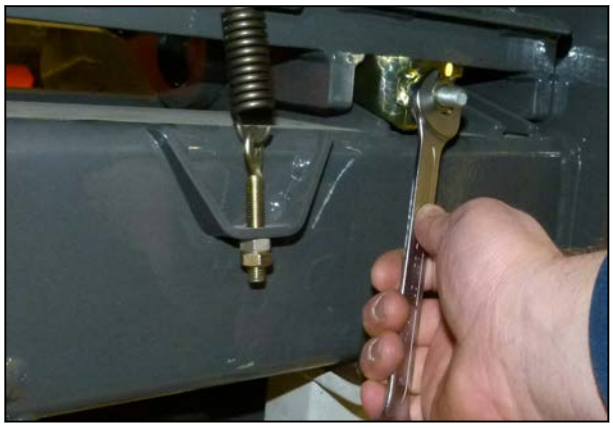


Fig. 70

2.7 Engine

2.7.1 Engine oil

2.7.1.1 Check engine oil level

Procedure

1. Park the forage harvester on a level surface with the rear axle suspension in the center position.
2. Check the oil drain plug and oil filter for leaks.
3. Turn off the engine.
4. After approx. 5 minutes, remove dipstick (A).

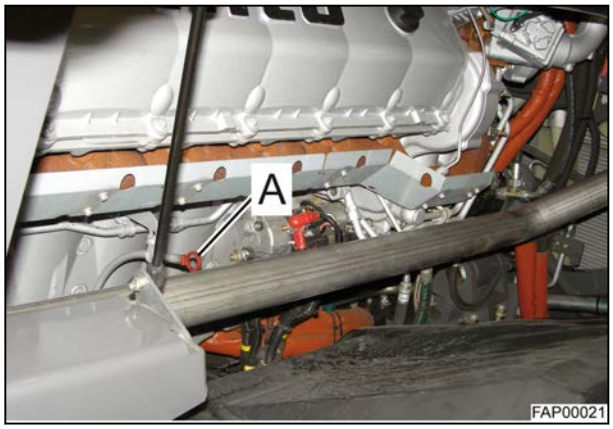


Fig. 93

5. Wipe dipstick with a clean lint-free rag.
6. Reinsert dipstick fully and twist into place.
7. Remove the dipstick.
8. If necessary, fill to the MAX mark. If the oil level is just above the MIN mark then the oil must be topped up.

   NOTE:
   Fill to at least the MIN mark.
   Do not fill above the MAX mark. An excessive quantity of oil could damage the engine.

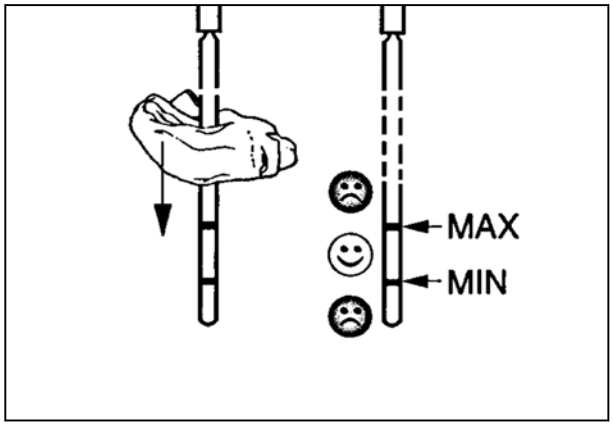


Fig. 94

2.8 Transmission

2.8.1 Check oil level in main transmission

Procedure

1. Park the forage harvester on a level surface with the rear axle suspension in the center position.
2. Oil level must reach 3/4 of sight glass (A).

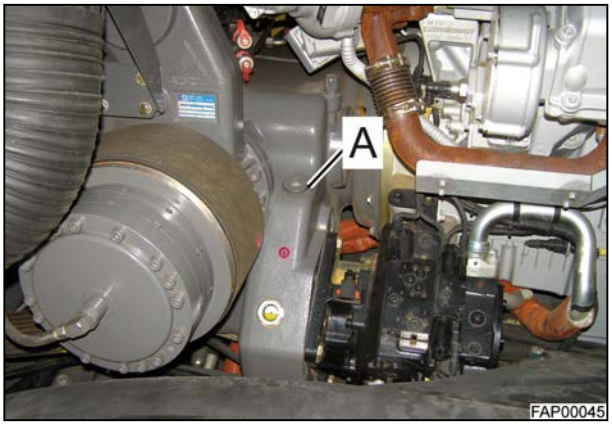


Fig. 112

2.8.2 Fill main transmission with oil

Fill with oil

Procedure

1. Unscrew screw (A).
2. Fill oil until 3/4 of sight glass (B) is covered.
3. Screw in screw (A) and tighten.

   NOTE:
   Oil supply approx. 28 l.

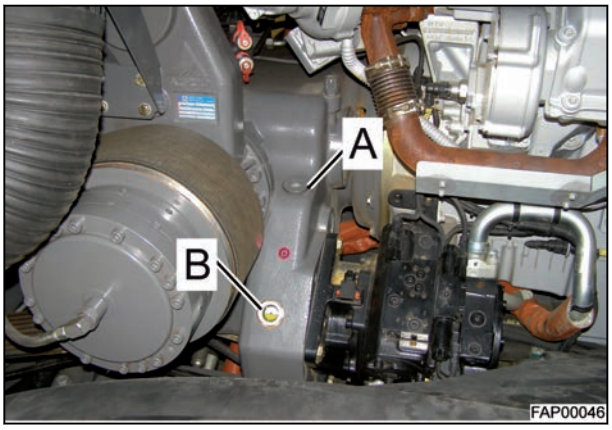


Fig. 113

(A) Filling screw
(B) Sight glass for oil level

2.8.3 Drain main transmission oil

WARNING:
Take care when draining hot oil; risk of burns! Wear protective gloves.

Procedure

1. Park the forage harvester on a level surface with the rear axle suspension in the center position.

3. Connect a suitable hose to drain tap (A) on the hydraulic tank.

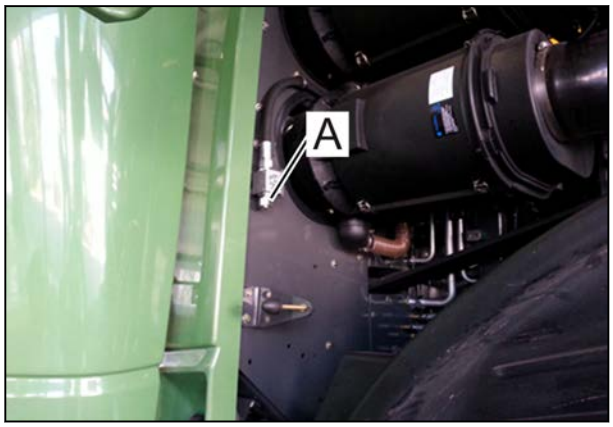


Fig. 134

4. Unscrew breather filter (B) on the hydraulic tank and replace.

5. Open drain valve and collect draining hydraulic oil in an appropriately sized container.

6. Remove suction return line filter.

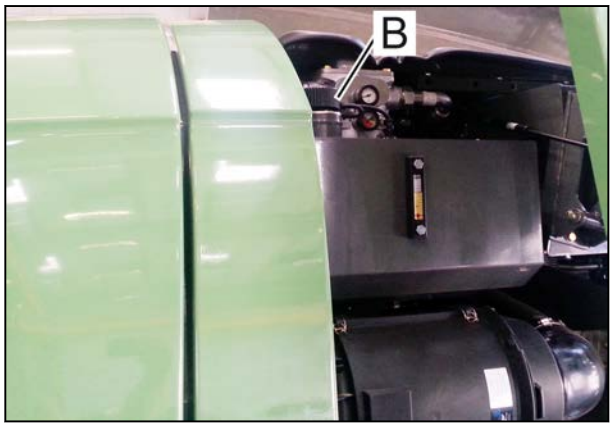


Fig. 135

7. Unscrew magnetic drain plug and check for metal chips.

8. Screw magnetic drain plug (C) back in.

9. Close drain valve and remove hose.

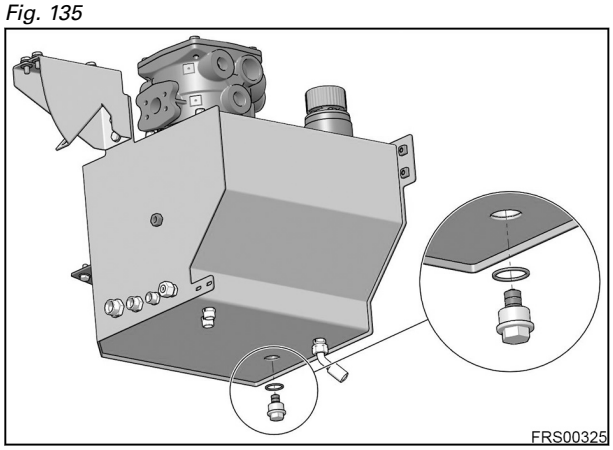


Fig. 136

10. Remove the cover.

11. Check tank and suction strainers for deposits.

12. Refit cover.

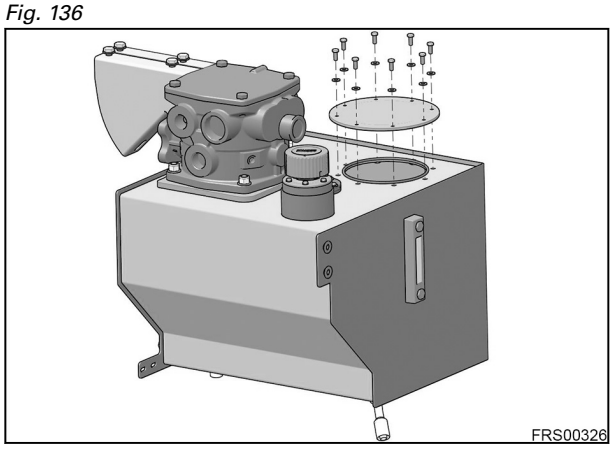


Fig. 137

Machine status	Basic machine without header	Kemper pickup	Kemper 375+ without support wheels	Kemper 375+ with support wheels	Kemper 390+ without support wheels	Kemper 390+ with support wheels	Max. permissible axle load (kg)
Ballast	**Without**	**Without**	**300 kg**	**300 kg**	**300 kg**	**300 kg**	**-**
speed	**40 km/h**	**40 km/h**	**20 km/h**	**20 km/h**	**20 km/h**	**40 km/h**	**-**
Rear axle load	8520 kg	7840 kg	7020 kg	8180 kg	6640 kg	8540 kg	8700 kg
Rear wheel load	4260 kg	3920 kg	3510 kg	4090 kg	3320 kg	4270 kg	4350 kg
500/80 R28 Continental IMP SVT	2.2 bar	2 bar	1.2 bar	2.1 bar	1.2 bar	2.3 bar	2.3 bar
600/65 R28 Continental IMP AC65	1.9 bar	1.8 bar	1.2 bar	1.8 bar	1 bar	2 bar	2 bar
600/60-30.5 Trelleborg T421 IMP	1.6 bar	1.4 bar	1.4 bar	1.4 bar	1.4 bar	1.6 bar	1.6 bar
650/55 B30.5 Trelleborg T428 AMP	1.6 bar	1.4 bar	1.1 bar	1.5 bar	1 bar	1.6 bar	1.6 bar
710/50-30.5 Trelleborg T423 IM	1.4 bar	1.2 bar	1.3 bar	1.2 bar	1.2 bar	1.4 bar	1.4 bar

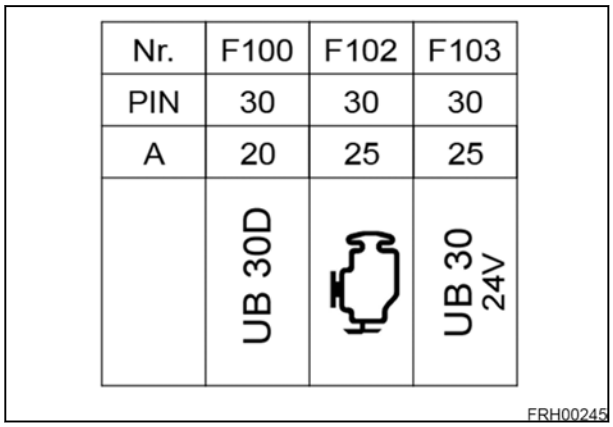


Fig. 161

Fuse	PIN	Value (A)	Consumer
100	UB 30D 12V	20	**X1444** - Fuse carrier F31 - F40 **NOTE:** *Supply fuse F31 to F34* **A056** - Radio **A100** - Multifunction armrest (MFA) **A103** - NT0x terminal
102	UB 30 24V	25	**A161** - Control unit exhaust gas aftertreatment (ACM)
103	UB 30 24V	25	**X1443** - Fuse carrier F21 - F30 **NOTE:** *Supply for fuses F22 and F23* **A158** - CPC4, engine control unit **A159** - Engine control unit management (MCM) **A161** - Control unit exhaust gas aftertreatment (ACM) **G007** - 24 V alternator **S035** - High-pressure/low-pressure switch (air-conditioning system) **Y193** - Air conditioning compressor magnetic clutch

2.14.5 Installation of additional electrical and electronic equipment

Safety recommendations for installation of additional electrical and electronic equipment and/or components

The machine is equipped with electronic components and parts whose functions can be influenced by electromagnetic signals from other equipment. This influence can be dangerous if the following safety instructions are not followed.

When installing additional electrical and electronic equipment and/or components in the machine and connecting them to the on-board power system, it is the user's responsibility to check whether their installation causes interference to the vehicle's electronic system or other components.

This is particularly important for:

Connection of consumers.

- Never connect to measuring connections or sensors as this may interfere with control functions.

Power used by consumers.

3.1 Information and fault messages

3.1.1 Information and fault messages in the terminal

Information messages

Information messages are displayed in the terminal in the relevant national language.

The message appears with an information symbol above the text.

These messages should be observed and the appropriate action taken.

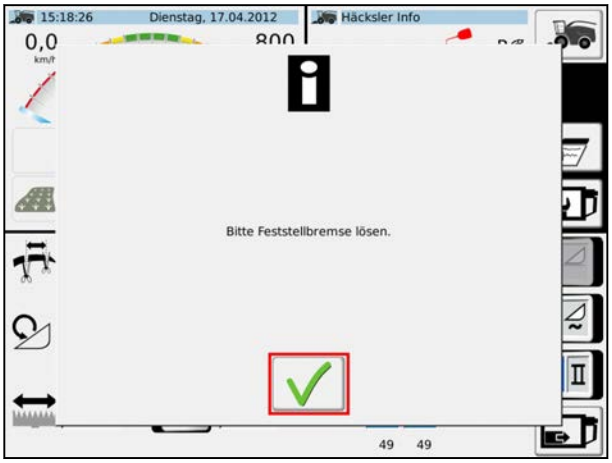


Fig. 1

Fault messages

Fault messages are displayed in the terminal in the relevant national language.

The message appears with a warning symbol above the text.

These messages should be observed and the appropriate action taken.

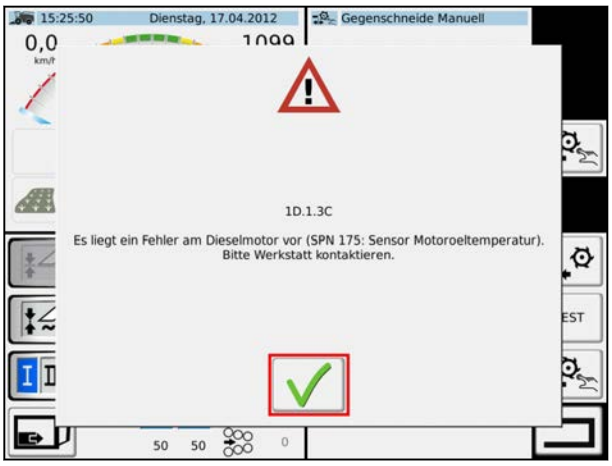


Fig. 2

Fault memory

Displays any currently occurring faults; older faults are grayed out.

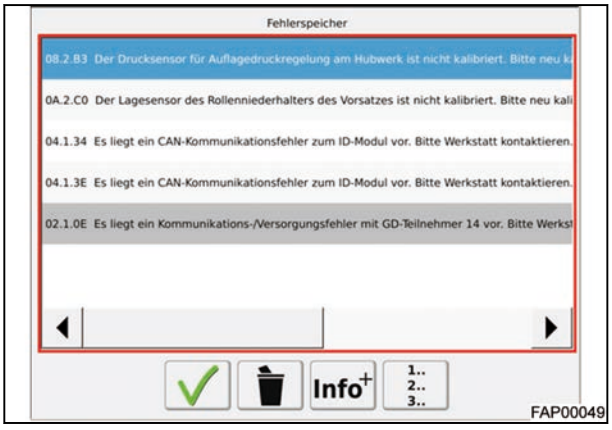


Fig. 3

Fault code	DIN brief description	Cause	Consequences and remedy Customer
02.1.1E	**A050** - Basic control unit ECU (EXT) **A103** - NT0x terminal	There is a communication/supply fault with GD participant 30	Contact workshop
02.1.1F	**A050** - Basic control unit ECU (EXT) **A103** - NT0x terminal	There is a communication/supply fault in the EXT control unit	Contact workshop
02.1.20	**A102** - Topcon receiver ECU **A173** - Trimble AG-382 **U004** - NovAtel Smart 6 receiver	There is a communication/supply fault with GD participant 32	Contact workshop
02.1.21	**A050** - Basic control unit ECU (EXT) **A103** - NT0x terminal	There is a communication/supply fault with GD participant 33	Contact workshop
02.1.22	**A050** - Basic control unit ECU (EXT) **A103** - NT0x terminal	There is a communication/supply fault with GD participant 34	Contact workshop
02.1.23	**A050** - Basic control unit ECU (EXT) **A103** - NT0x terminal	There is a communication/supply fault with GD participant 35	Contact workshop
02.1.24	**A050** - Basic control unit ECU (EXT) **A103** - NT0x terminal	There is a communication/supply fault with GD participant 36	Contact workshop
02.1.25	**A050** - Basic control unit ECU (EXT) **A103** - NT0x terminal	There is a communication/supply fault with GD participant 37	Contact workshop
02.1.26	**A050** - Basic control unit ECU (EXT) **A103** - NT0x terminal	There is a communication/supply fault with GD participant 38	Contact workshop
02.1.27	**A050** - Basic control unit ECU (EXT) **A103** - NT0x terminal	There is a communication/supply fault with GD participant 39	Contact workshop

Fault code	DIN brief description	Cause	Consequences and remedy Customer
04.1.15	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (evaluation of operating logic) are invalid	Restart vehicle If the error occurs again, please contact the workshop
04.1.16	**S077** - Emergency stop switch	There is a fault in the emergency stop switch	Restart vehicle If the error occurs again, please contact the workshop
04.1.17	**S077** - Emergency stop switch **S168** - Emergency stop switch	The emergency stop switch has been pressed	The diesel engine will shut down
04.1.18	**A100** - Multifunction armrest (MFA)	The "Freely assignable function" joystick button is faulty	Contact workshop
04.3.19	**A100** - Multifunction armrest (MFA)	The "Freely assignable function" joystick button was already active on start-up and/or sticks during operation. The function is therefore not available.	Contact workshop
04.3.20	**A050** - Basic control unit ECU (EXT)	The main connector between the feed and the machine is not connected	With the feeding removed, mount the service connector
04.3.21	**A050** - Basic control unit ECU (EXT)	The main connector between the chopper drum and the machine is not connected.	-
04.3.22	**A050** - Basic control unit ECU (EXT)	The service connector is connected	
04.3.23	**S053** - Driver presence switch	If the operator's seat is not occupied, the drive train, header and feed drive and all other active automatic functions will be deactivated.	Please sit down
04.3.24	**S053** - Driver presence switch	The operator's seat is not occupied when the machine is running	Please sit down

Fault code	DIN brief description	Cause	Consequences and remedy Customer
04.3.AF	**A101** - ECU, VarioDoc / VarioGuide **Y087** - VarioGuide steering valve **Y099** - Pilot pressure switch-off solenoid valve (VarioGuide)	This function has been blocked due to a fault with the automatic steering system	Contact workshop
04.3.B0	**A050** - Basic control unit ECU (EXT)	This function is still not available as not all the conditions have been satisfied.	Restart vehicle If the error occurs again, please contact the workshop
04.3.B1	**B121** - Suspension position sensor **Y013** - Suspension lowering solenoid valve **Y014** - Suspension raising solenoid valve	Level control of the rear axle suspension has been deactivated due to a fault	Contact workshop
04.3.B2	**A050** - Basic control unit ECU (EXT)	The starting conditions for activating the drive train have not been satisfied	Restart vehicle
04.3.B3	**S077** - Emergency stop switch	All machine functions are locked due to a fault with the emergency stop switch	Restart vehicle If the error occurs again, please contact the workshop
04.3.B4	**A101** - ECU, VarioDoc / VarioGuide **A102** - Topcon receiver ECU **Y087** - VarioGuide steering valve	Activation blocked due to a fault with the automatic steering system. Pre-activation is still possible.	Contact workshop
04.3.B5	**A050** - Basic control unit ECU (EXT) **B146** - Main transmission speed sensor	Please wait until the ECO/POWER switchover is complete.	Warning message Please wait

Fault code	DIN brief description	Cause	Consequences and remedy Customer
07.2.15	**B117** - Metal detector	Timeout when waiting for metal detector confirmation after test stop	Repeat process If this occurs several times, contact the workshop
07.2.16	**B117** - Metal detector	Timeout when resetting metal detector	Repeat process If this occurs several times, contact the workshop
07.1.17	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (feed drive control) are invalid	Restart vehicle If the error occurs again, please contact the workshop
07.1.18	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (feed drive control) are invalid	Perform calibration of the feed If the error occurs again, please contact the workshop
07.1.19	**Y129** - Intake feed drive pump solenoid valve **Y130** - Reverse feed drive pump solenoid valve **Y131** - Reverse header drive pump solenoid valve **Y132** - Header feed drive pump solenoid valve	Due to a short circuit to the battery voltage, the feed and header drives are switched off	Contact workshop
07.1.1A	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (feed drive control) are invalid	Restart vehicle If the error occurs again, please contact the workshop

Fault code	DIN brief description	Cause	Consequences and remedy Customer
08.1.C1	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (hydraulic lift) are invalid	Restart vehicle If the error occurs again, please contact the workshop
08.1.C2	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (hydraulic lift) are invalid	Restart vehicle If the error occurs again, please contact the workshop
08.1.C3	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (hydraulic lift) are invalid	Restart vehicle If the error occurs again, please contact the workshop
08.1.C4	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (hydraulic lift) are invalid	Restart vehicle If the error occurs again, please contact the workshop
08.1.C5	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (hydraulic lift) are invalid	Restart vehicle If the error occurs again, please contact the workshop
08.1.C7	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (hydraulic lift) are invalid	Restart vehicle If the error occurs again, please contact the workshop

Fault code	DIN brief description	Cause	Consequences and remedy Customer
0A.1.57	**Y144** - Swivel Cracker valve in/out	There is a fault with the "Swivel cracker" valve. The temperature is outside the permitted range.	If this occurs several times, contact the workshop
0A.1.58	**Y144** - Swivel Cracker valve in/out	There is a fault with the "Swivel cracker" valve (valve spool fault)	Contact workshop
0A.1.59	**Y144** - Swivel Cracker valve in/out	There is a fault with the "Swivel cracker" valve (valve spool fault)	Contact workshop
0A.1.5A	**Y144** - Swivel Cracker valve in/out	There is a fault with the "Swivel cracker" valve (valve spool fault)	Contact workshop
0A.1.5B	**Y144** - Swivel Cracker valve in/out	There is a fault with the "Swivel cracker" valve (valve spool fault)	Contact workshop
0A.1.5C	**Y144** - Swivel Cracker valve in/out	There is a fault with the "Swivel cracker" valve (electronics)	Contact workshop
0A.1.5D	**Y144** - Swivel Cracker valve in/out	There is a fault with the "Swivel cracker" valve (valve control)	Contact workshop
0A.1.5E	**Y144** - Swivel Cracker valve in/out	There is a fault with the "Swivel cracker" valve (valve control)	Contact workshop
0A.1.5F	**Y144** - Swivel Cracker valve in/out	There is a fault with the "Swivel cracker" valve (valve control)	Contact workshop
0A.1.60	**Y145** - Spout swivel valve	There is a fault with the "Swivel spout" valve. Valve does not report to the CAN bus.	Contact workshop
0A.1.61	**Y145** - Spout swivel valve	There is a fault with the "Swivel spout" valve (electronic fault)	Contact workshop
0A.1.62	**Y145** - Spout swivel valve	There is a fault with the "Swivel spout" valve (undervoltage)	Contact workshop

Fault code	DIN brief description	Cause	Consequences and remedy Customer
0A.1.C9	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (roll locking clamp control) are invalid	Restart vehicle If the error occurs again, please contact the workshop
0A.1.CA	**Y261** - Roller-type windguard solenoid valve	The lock valve for locking the header roll locking clamp is faulty	Contact workshop
0A.3.D1	**Y140** - Header raise valve	Due to a fault, the "Raise/lower linkage" valve was blocked. It can be used again once this message has been confirmed.	Warning message
0A.3.D2	**Y141** - Header tilt valve	Due to a fault, the "Header tilt" valve was blocked. It can be used again once this message has been confirmed.	Warning message
0A.3.D3	**Y142** - Flip header/wheels valve	Due to a fault, the "Flip header/wheels" valve was blocked. It can be used again once this message has been confirmed.	Warning message
0A.3.D4	**Y143** - Header locking clamp valve	Due to a fault, the "Header locking clamp" valve was blocked. It can be used again once this message has been confirmed.	Warning message
0A.3.D5	**Y144** - Swivel Cracker valve in/out	Due to a fault, the "Swivel cracker" valve was blocked. It can be used again once this message has been confirmed.	Warning message
0A.3.D6	**Y145** - Spout swivel valve	Due to a fault, the "Swivel spout" valve was blocked. It can be used again once this message has been confirmed.	Warning message
0A.3.D7	**Y146** - Raise/lower spout valve	Due to a fault, the "Raise/lower spout" valve was blocked. It can be used again once this message has been confirmed.	Warning message

Fault code	DIN brief description	Cause	Consequences and remedy Customer
0F.1.07	**E122** - Right additional headlamp H4 **E123** - Left additional headlamp H4	The high beam auxiliary headlight (top) is faulty	Check bulb If necessary, consult the workshop
0F.1.08	**E122** - Right additional headlamp H4 **E123** - Left additional headlamp H4	The low beam auxiliary headlight (top) is faulty	Check bulb If necessary, consult the workshop
0F.1.09	**E202** - Left direction indicator and sidelight **E343** - Left wide load LED indicator	Front left direction indicator is faulty	Check bulb If necessary, consult the workshop
0F.1.0A	**E203** - Right direction indicator and sidelight **E344** - Right wide load LED indicator	Front right direction indicator is faulty	Check bulb If necessary, consult the workshop
0F.1.0B	**E064** - Rear left direction indicator **E130** - Rear left LED direction indicator	Rear left direction indicator is faulty	Check bulb If necessary, consult the workshop
0F.1.0C	**E065** - Rear right direction indicator **E131** - Rear right LED direction indicator	Rear right direction indicator is faulty	Check bulb If necessary, consult the workshop
0F.1.0D	**A130** - Central electrical system (ZE) ECU	Left direction indicator socket is faulty	Contact workshop
0F.1.0E	**A130** - Central electrical system (ZE) ECU	Right direction indicator socket is faulty	Contact workshop
0F.1.0F	**A130** - Central electrical system (ZE) ECU	Rear socket terminal 54 is faulty Disconnect the trailer if present	If this occurs several times, contact the workshop

3.2.15 Fault code 15.1.00

Fault code	DIN brief description	Cause	Consequences and remedy Customer
15.3.60	**A100** - Multifunction armrest (MFA)	The "Activate suspension" button on the multifunction armrest was already active on start-up and/or sticks during operation. The function is therefore only available again once the button has been released.	Contact workshop
15.3.61	**A100** - Multifunction armrest (MFA)	The "Deactivate suspension" button on the multifunction armrest was already active on start-up and/or sticks during operation. The function is therefore only available again once the button has been released.	Contact workshop
15.1.62	**Y014** - Suspension raising solenoid valve	"Raise suspension" solenoid valve actuation is faulty	Contact workshop
15.1.63	**Y013** - Suspension lowering solenoid valve	"Lower suspension" solenoid valve actuation is faulty	Contact workshop
15.1.64	**A100** - Multifunction armrest (MFA)	The "Activate suspension" button on the multifunction armrest is faulty	Contact workshop
15.1.65	**A100** - Multifunction armrest (MFA)	The "Deactivate suspension" button on the multifunction armrest is faulty	Contact workshop
15.1.67	**B121** - Suspension position sensor	The suspension position sensor is faulty	Contact workshop
15.1.6C	**B121** - Suspension position sensor	The suspension position sensor is not calibrated	Perform calibration If necessary, consult the workshop
15.1.6D	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (suspension) are invalid	Restart vehicle If the error occurs again, please contact the workshop

Fault code	DIN brief description	Cause	Consequences and remedy Customer
1D.1.2D	**A131** - Engine control unit ECU9	There is a fault with the diesel engine (SPN 521156: Maximum blankshot time elapsed). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.2E	**B275** - Engine oil fill level sensor	There is a fault with the diesel engine (SPN 98: engine oil level). For a more detailed description of the cause (FMI), see the fault information page.	Check oil level If the error occurs again, please contact the workshop
1D.1.2F	**B261** - Exhaust gas recirculation charge air temperature sensor (side B)	There is a fault with the diesel engine (SPN 1131: charge air temperature). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.36	**B251** - Turbocharger speed sensor, high pressure (side A)	There is a fault with the diesel engine (SPN 103: turbocharger speed sensor). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.37	**B260** - Exhaust gas recirculation charge air temperature sensor (side A)	There is a fault with the diesel engine (SPN 105: intake air temperature sensor 1). For a more detailed description of the cause, see the fault information page.	Contact workshop
1D.1.38	**B253** - Turbocharger speed sensor, low pressure (side A)	There is a fault with the diesel engine (SPN 1170: turbocharger speed 3). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.39	**A131** - Engine control unit ECU9	There is a fault with the diesel engine (SPN 158: battery voltage switch). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop

Fault code	DIN brief description	Cause	Consequences and remedy Customer
1D.1.A9	**A131** - Engine control unit ECU9	There is a fault with the engine (SPN 521014: CAN controller 2 warning). For a more detailed description of the cause, see the fault information page.	Contact workshop
1D.1.AA	**A131** - Engine control unit ECU9	There is a fault with the diesel engine (SPN 521016: engine stopped after a fault with the camshaft sensor/ crankshaft sensor). For a more detailed description of the cause, see the fault information page.	Contact workshop
1D.1.AB	**B250** - Crankshaft speed sensor	There is a fault with the engine (SPN 521017: Crankshaft sensor). For a more detailed description of the cause, see the fault information page.	Contact workshop
1D.1.AC	**B249** - Camshaft speed sensor	There is a fault with the engine (SPN 521018: Camshaft sensor). For a more detailed description of the cause, see the fault information page.	Contact workshop
1D.1.AD	**B266** - Fuel pressure sensor, downstream of filter	There is a fault with the engine (SPN 521052: Faulty fuel pressure sensor). For a more detailed description of the cause, see the fault information page.	Contact workshop
1D.1.AE	**A131** - Engine control unit ECU9	There is a fault with the engine (SPN 521019: Frequency input at engine control unit). For a more detailed description of the cause, see the fault information page.	Contact workshop
1D.1.AF	**A131** - Engine control unit ECU9	There is a fault with the diesel engine (SPN 520953: Short circuit or wire break at one of the transistor outputs 1–4). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.B0	**A131** - Engine control unit ECU9	There is a fault with the diesel engine (SPN 520954: Short circuit or wire break at one of the transistor outputs 1–4). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop

Fault code	DIN brief description	Cause	Consequences and remedy Customer
1D.1.F2	**Y229** - B6 injector	There is a fault with the diesel engine (SPN 520915: Short-circuit fault in the injector wiring cylinder B6. Result: misfires). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.F3	**Y095** - Injector 1	There is a fault with the diesel engine (SPN 520930: Open-circuit fault in the injector wiring cylinder A1. Result: misfires). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.F4	**Y096** - Injector 2	There is a fault with the diesel engine (SPN 520931: Open-circuit fault in the injector wiring cylinder A2. Result: misfires). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.F5	**Y097** - Injector 3	There is a fault with the diesel engine (SPN 520932: Open-circuit fault in the injector wiring cylinder A3. Result: misfires). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.F6	**Y098** - Injector 4	There is a fault with the diesel engine (SPN 520933: Open-circuit fault in the injector wiring cylinder A4. Result: misfires). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.F7	**Y100** - Injector 5	There is a fault with the diesel engine (SPN 520934: Open-circuit fault in the injector wiring cylinder A5. Result: misfires). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop
1D.1.F8	**Y101** - Injector 6	There is a fault with the diesel engine (SPN 520935: Open-circuit fault in the injector wiring cylinder A6. Result: misfires). For a more detailed description of the cause (FMI), see the fault information page.	Contact workshop

Fault code	DIN brief description	Cause	Consequences and remedy Customer
20.1.AE	**A173** - Trimble AG-382 **U004** - NovAtel Smart 6 receiver	Receiver has no support for the selected correction signal	Enter valid authorization code If necessary, consult the workshop
20.1.AF	**A174** - Satel EASyProof	Radio modem or firmware version not supported	Contact workshop
20.1.B0	**A101** - ECU, VarioDoc / VarioGuide **A102** - Topcon receiver ECU **A173** - Trimble AG-382 **U004** - NovAtel Smart 6 receiver	There is a communication fault with VarioGuide (satellite receiver)	Contact workshop
20.3.B1	**A101** - ECU, VarioDoc / VarioGuide	Position jumps were detected when recording the wayline. You can use the wayline but quality expectations may not be met.	Use the wayline anyway or delete and re-record it
20.1.C0	**A101** - ECU, VarioDoc / VarioGuide **A102** - Topcon receiver ECU **A173** - Trimble AG-382 **U004** - NovAtel Smart 6 receiver	Recording of the wayline is cancelled because the GPS position is not available or the gyro (IMU) was not initialized.	Please wait for valid GPS position or initialize the gyro system and re-record the wayline.
20.3.C1	**A101** - ECU, VarioDoc / VarioGuide	The maximum number of wayline points was exceeded. Recording of the wayline was stopped.	Re-record wayline
20.2.C2	**A101** - ECU, VarioDoc / VarioGuide	A new authorization code was entered. The receiver checks the authorization code and restarts if necessary.	Please wait
20.2.C3	**A173** - Trimble AG-382 **U004** - NovAtel Smart 6 receiver	The authorization code entered is correct and has been accepted. The new accuracy can now be used.	Warning message

Fault code	DIN brief description	Cause	Consequences and remedy Customer
33.1.19	**S130** - Parking brake monitoring pressure switch	There is a fault with the parking brake monitoring pressure switch	Contact workshop
33.2.1B	**S130** - Parking brake monitoring pressure switch	Timeout when engaging or releasing parking brake. The parking brake switches back to the previous status.	If this occurs several times, contact the workshop
33.1.1C	**S111** - Service brake accumulator pressure switch	There is a fault with the service brake monitoring pressure switch	Contact workshop
33.1.1D	**S111** - Service brake accumulator pressure switch	Timeout when service brake system pressure is reached	If this occurs several times, contact the workshop
33.1.1E	**A050** - Basic control unit ECU (EXT)	The values stored over the 100-m calibration run are invalid	Perform calibration If the error occurs again, please contact the workshop
33.1.1F	**A050** - Basic control unit ECU (EXT)	There is a fault in the values from the 100-m calibration run Tire circumference and impulse total do not match after calibration run.	Perform calibration If the error occurs again, please contact the workshop
33.1.22	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (drive train) are invalid	Restart vehicle If the error occurs again, please contact the workshop
33.1.23	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (drive train) are invalid	Restart vehicle If the error occurs again, please contact the workshop

Fault code	DIN brief description	Cause	Consequences and remedy Customer
34.3.15	**A100** - Multifunction armrest (MFA)	The "Swivel spout right, stage 2" joystick key was already active at the start and is stuck in continuous operation. The function is therefore not available.	Contact workshop
34.1.16	**A100** - Multifunction armrest (MFA)	The "Swivel spout left, stage 2" joystick button is faulty	Contact workshop
34.1.17	**A100** - Multifunction armrest (MFA)	The "Swivel spout right, stage 2" joystick button is faulty	Contact workshop
34.1.20	**B156** - Spout flap rotary position sensor	The setting of the rotary position sensor for the spout flap is faulty	Contact workshop
34.1.21	**B155** - Spout height rotary position sensor	The rotary position sensor of the spout height adjustment mechanism is faulty	Contact workshop
34.1.22	**B154** - Spout rotation rotary position sensor	The rotary position sensor of the spout rotary control is faulty	Contact workshop
34.1.23	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (spout control) are invalid	Restart vehicle If the error occurs again, please contact the workshop
34.1.24	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (spout control) are invalid	Restart vehicle If the error occurs again, please contact the workshop
34.1.25	**A050** - Basic control unit ECU (EXT)	The values stored in the EXT (spout control) are invalid	Restart vehicle If the error occurs again, please contact the workshop

4 Technical specification

4.1.12 Technical data: Central lubrication

Central lubrication	
Electrical central lubrication	Yes
Tank capacity	8 kg
Flow rate in 1/2 hours	44 cm^3
Number of lubrication points	42

5.1.2 Lubrication points and intervals

NOTE: *You can set up separate reminder notifications on terminal page "Maintenance and Total Counters", e.g. for specific lubrication points.*

- 50 operating hours — weekly
- 100 operating hours — fortnightly
- 250 operating hours — every six months (before corn harvest/grass harvest and during winter maintenance)
- 500 operating hours — annually (during winter maintenance)

Every 50 operating hours

Lubricant distributor for the cracker

One grease press stroke via the grease nipple (A1) to lubricate the cracker drive tension pulley

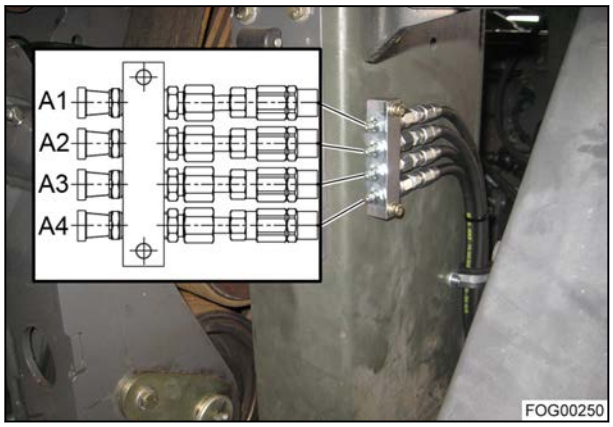
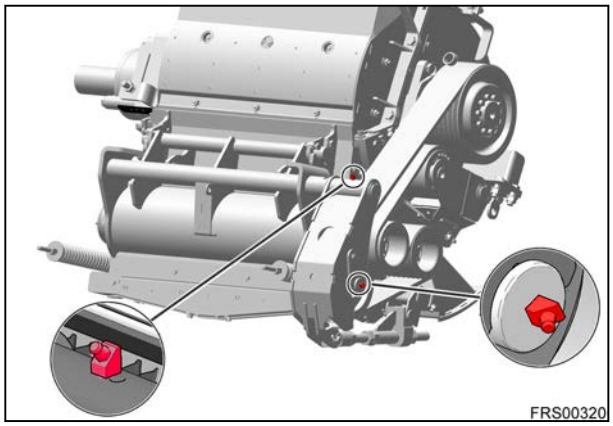


Fig. 15

Four grease press strokes, tension pulley for cracker drive



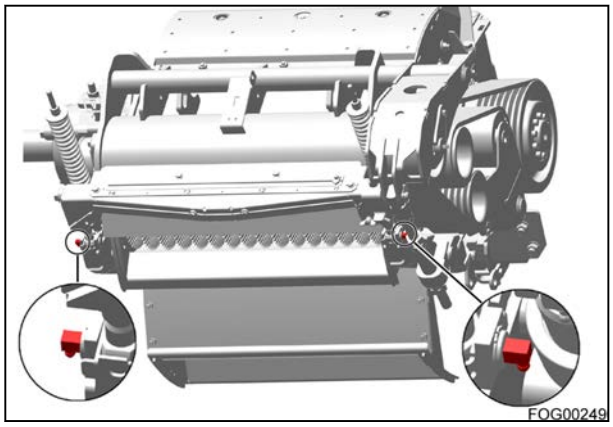


Fig. 16

Overview

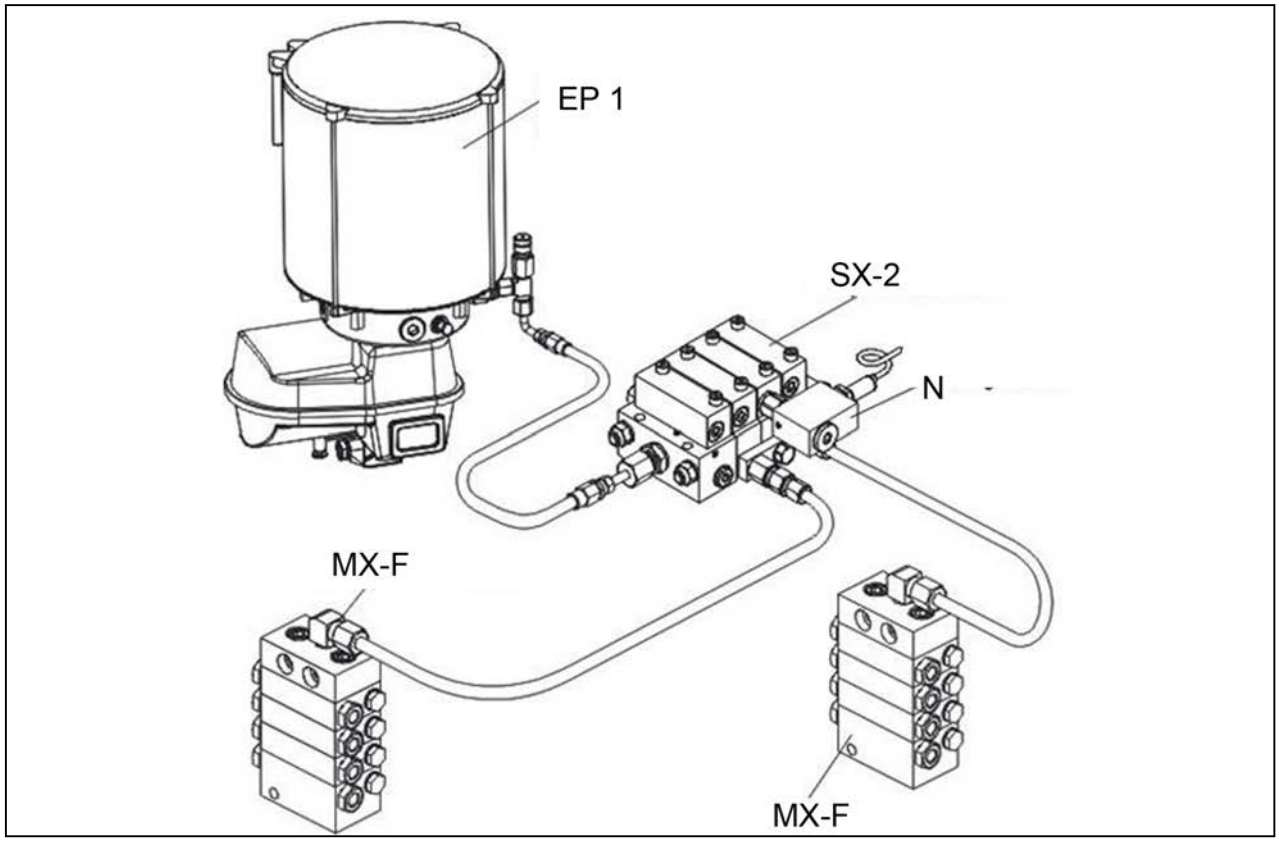


Fig. 43

EP 1 - electrical lubrication pump
MX-F - sub-distributor
N - proximity switch
SXE-2 - main distributor

Work to be carried out	Operating hours	50	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000	7500	8000
	years			1		2		3		4		5		6		7		8
Check that bolted connections are tight and free of leaks, especially on the engine, gearbox, body and hydraulics; tighten if necessary. Only tighten hydraulic connections in the event of a leak.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
In particular, check the hydraulic hoses of the steering for chafing points		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Check the trailer hitch				X		X		X		X		X		X		X		X
Check the rotation of the trailer hitch		Four times a year																
Check fire extinguishers				X		X		X		X		X		X		X		X
Check the air pressure of the tires and correct if necessary		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lubricate the greasing points according to lubrication chart, oil all joints		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Clean the harvester and protect bare metal parts		after the harvest																
Test drive the harvester, checking braking efficiency		Weekly and before the start of the harvest																
Check the electrohydraulic steering and make sure that there are no current error messages		Weekly and before the start of the harvest																

NOTE:
Confirmation of technical service in the Service Record Book.