All types	Tractor / General system **Assembly overview**	**A**

8800	**Compressed air system**
8810	Compressor
8820	Brake fittings
8830	Lines
8850	Electrical actuation system
8890	Air tank

8900	**Front loader**
8910	Mounting frame
8915	Hydraulic implement actuation system
8955	3. hydraulic circuit
8958	Multi-coupling
8970	Pipes
8990	Lift cylinder

9000	**Electrics**
9010	Alternator
9015	Starter lockout
9040	Fuses
9050	Battery system
9060	Starter motor system

9200	**Front power lift**
9210	Lift gear
9211	External control
9220	Cylinder
9230	Pipes
9260	Enhanced control power lift
9280	Frame

9400	**Hydraulic pump assembly**
9410	LS pump
9420	Transmission pump
9430	Steering pump

9500	**Hydraulic pipes**
9510	Base circle
9516	Power lift
9525	with oil cooler
9530	Hydraulic trailer brake
9531	Steering
9534	Reversing system

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FENDT	Farmer 400 412 /../ from 0001	Tractor / General system **Technical specifications - Farmer 412**	A

COOLING SYSTEM		
Max. constant coolant temperature	°C	105
Visco fan cut-in temperature	°C	54 - 62
Max. Visco fan speed at rated speed	rpm	3150
Visco fan blower root max. speed	rpm	3468
Slip when Visco fan fully on	%	5 - 7
Engine speed transmission ratio: Hub speed	i	1,66
Cooling water pump		
Max. internal pressure in radiator	bar	0,7 +0,2
Rate of delivery	l/min	210
Power consumption	kW	0,7
Thermostat		
Start of opening	°C	87 ±2

ENGINE LUBRICATION		
Max. oil temperature	°C	125
Oil pressure		
At rated speed (83 °C) min.	bar	4,0 ±0,4
At n = 650 min.	bar	0,8
Oil pump		
Oil pressure at engine speed		
At n = 700 rpm	bar	0.8 approx.
At n = 900 rpm	bar	1.0 approx.
From n = 1900 rpm	bar	2.0 approx.

INJECTION SYSTEM		
Injection pump	Model	PLD
Injector nozzles	Model	RDV
Injection pressure	bar	250
Max. injection pump injection pressure	bar	1250
Control rod travel	mm	17,0 - 17,5

FUEL PUMP		
Volumetric capacity at engine rated speed	l/min	11-12

VALVES		
Valve play (cold engine)		
Inlet / Outlet (° on setting tool)	°	160 / 195
Seat angle		
Inlet / Outlet	°	30 / 45
Diameter of valve head		
Inlet / Outlet	mm	34,7 / 33,5
Valve control times		
Inlet opens before BDC	°	39,5
Inlet closes after UDC	°	46,5
Outlet opens before UDC	°	74,5
Outlet closes after BDC	°	49,5

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Fault code	Id code	Brief description	Description	Consequences	Link	FENDIAS / Note
1.2.CB	A021, A020	Engine control module, pump control unit (injection pump) (EDC)	Fault in CAN communication to pump control unit	Engine idling, Chapter 2000 Reg.B (EDC fault)	'EDC control' circuit diagram	
1.2.CD	A021, A020	Engine control module, pump control unit (injection pump) (EDC)	Fault in propagation time of CAN communication between pump control unit and EDC control module	Reduced power, Chapter 2000 Reg.B (EDC fault)		
1.2.DE	A002, A021	Enhanced control module, engine control module (EDC)	Propagation time of CAN communication missing	Restricted operating mode, Chapter 2000 Reg.B (EDC fault)		
1.2.E0	A021, A002	Engine control module, enhanced control module (EDC)	Fault during CAN communication between EDC control module and enhanced control module	Chapter 2000 Reg.B (EDC fault) Chapter 9000 Reg.E (Can Bus)	'EDC engine control', 'transmission bus' circuit diagram	
1.2.E1			Fault in speed signal (B014 - sensor, accumulator shaft, B015 - sensor - bevel pinion) or PTO is driving engine (running on)	Fault display, Chapter 2000 Reg.B (EDC fault)		
2.1.E0	A002, A034	ECU, enhanced control Joystick	CAN communication fault between ECU enhanced control and drive switch	Emergency operation -- check enhanced control bus (Chapter 9000 Reg.E)		
2.1.EE		ISO/LBS implement	Fault in LBS ECU	Mounted implement can no longer be operated via joystick controls or terminal.		
2.1.EF		ISO/LBS implement		Limited operation of implement, depending on manufacturer	For fault description, please see implement manufacturer's literature	

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A007 = Instrument cluster

There are three cable couplers behind the instrument cluster:

No. in circuit diagrams = colour

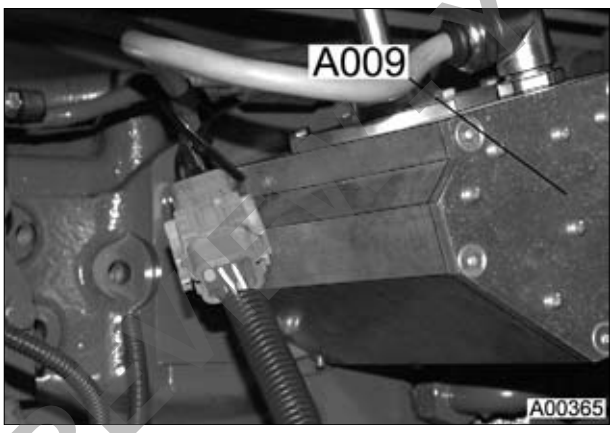
X100 = Blue
X101 = yellow
X102 = White

In front of steering wheel



A008 = Vario terminal

In cab on right on A004 - control console

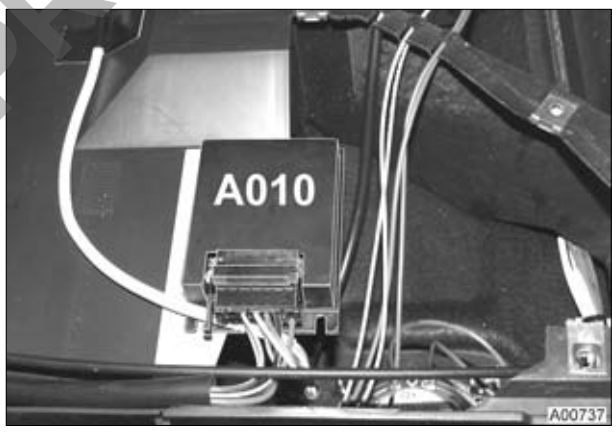


A009 = Actuator unit

Changes position of actuator shaft, thereby changing transmission ratio of ML transmission

On right below cab

Remove right rear wheel.
Unscrew cover panel



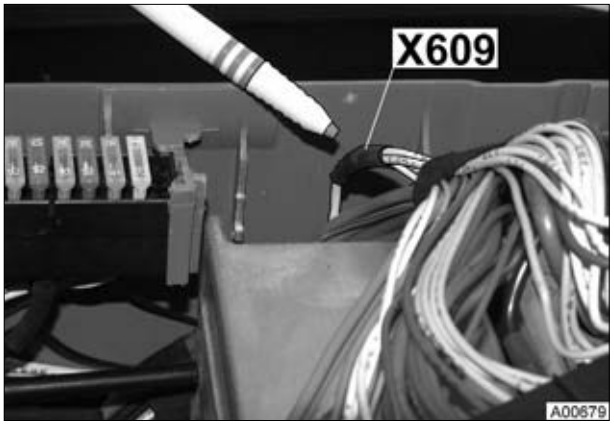
A010 = air-conditioning electronic thermostat

at top in the cab roof

Remove cab roof.

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X609 = UB 58 lighting connector

In cab right rear, under fuse holder 2

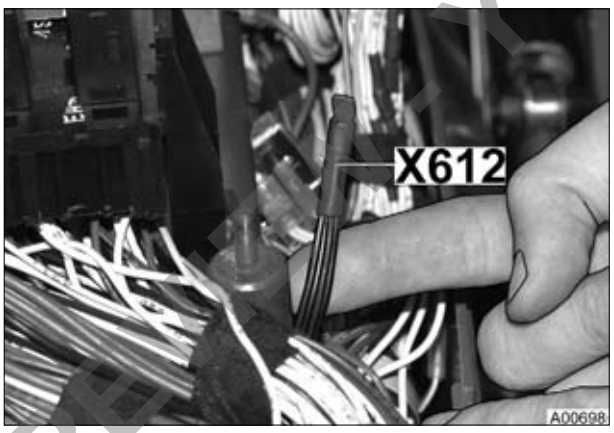
Remove panel, remove fuse holder 2 (X051)



X610 = Connector, right indicator
X611 = Connector, left indicator

In cab on right mudguard

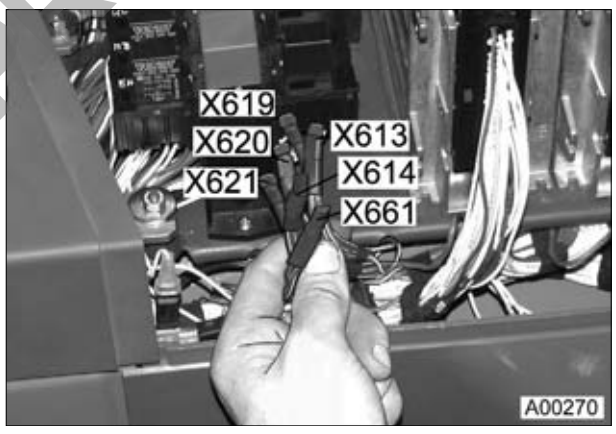
Remove control console



X612 = UB15 wiper and rotating beacon connector

In cab on right mudguard

Remove panel



X613 = Connector, ground/sensors/transmission e-box
X614 = Connector, ground/sensors/enhanced control e-box

In cab on right mudguard

Remove panel

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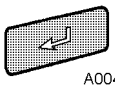
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Farmer 400 Fav 700	Tractor / General system **Calibration code 4009**	**F**

11. Calibrating turboclutch operation

Caution: following preparatory steps must be carried out.

- Handbrake pulled on **tight**
- Start engine
- Tractor stationary (less than 0.01 km/h)
- Engage range II via switch in armrest
- Engine speed 1100 rpm ± 40
- During calibration engine speed falls to approx. 700 rpm
- Transmission oil temperature approx. 40°C
- If error messages are displayed, faults must be individually cleared


A00462

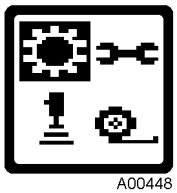
First press key and hold,


A00458

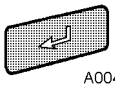
then press key, and fault symbol is cleared. Clear other faults in same way


A00457

Press key, next pictogram displayed.


A00448

Key flashes


A00462

Press key, next pictogram displayed

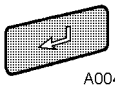


A00447

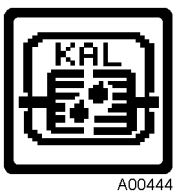
Input code **4009**


A00461

Press one of keys until desired number is displayed.


A00462

Store with key, following pictogram displayed

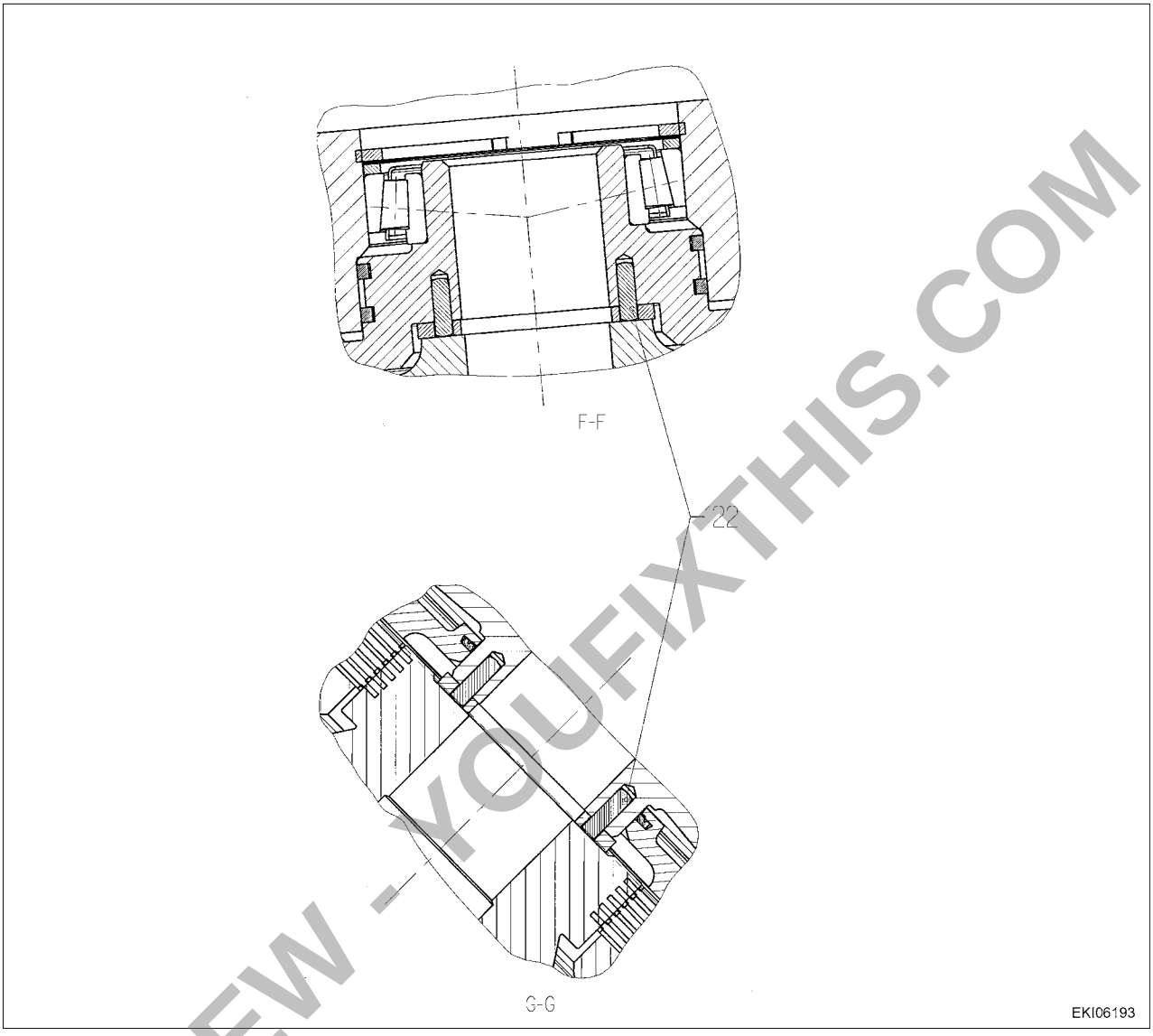


A00444

System runs through following five pictograms automatically

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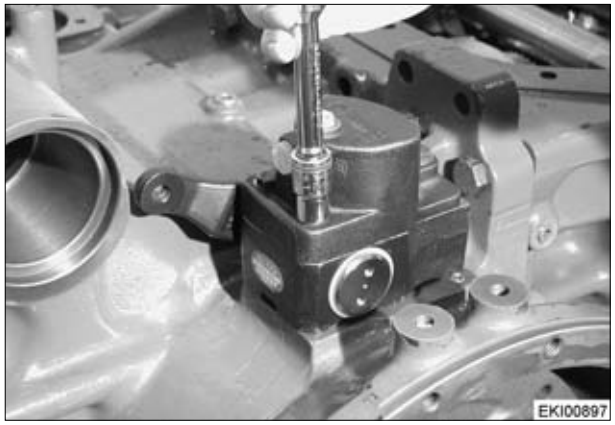
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Farmer 400 *Fav 700* *FENDT 700 / 800 Vario*	Transmission / Brake system **Adjusting rear wheel brake**	**F**



Removing upper part of cylinder

Note:
The work was carried out on a model for greater clarity.

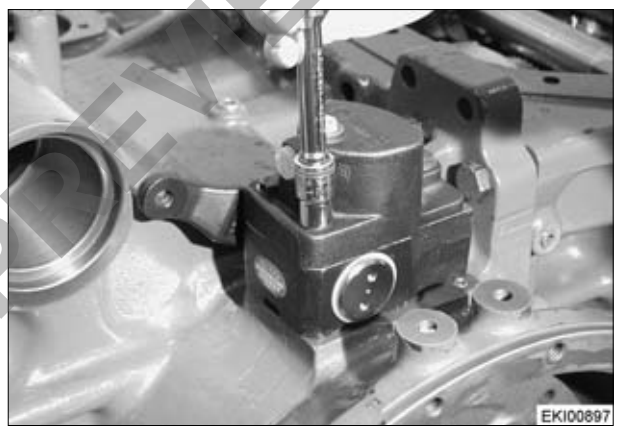


- Tighten setscrew using torque gauge X899.980.151 until tightening torque of **4.0 to 5.0 Nm (rear wheel locks)** is reached.
- Loosen setscrew by **1.5 turns (rear wheel turns)** and lock with nut
- Tighten hexagon nut to 40 +5 Nm.

If a new brake package was installed:

- Tighten setscrew to **15 Nm (brake package moves into contact).**
- Loosen setscrew.
- Tighten setscrew to **4.0 to 5.0 Nm (rear wheel locks).**
- Loosen setscrew by **1.5 turns (rear wheel turns)** and lock with nut
- Tighten hexagon nut to 40 +5 Nm.

Note:
To lock, tighten hexagon nut only.
The outer hexagon of the setscrew is for holding only, not locking.



Installing upper part of cylinder.

Tighten hexagon screws to 25 Nm.

- Screw on the brake lines.
- Screw on the hand brake Bowden cable

Note:
Bleed the brake hydraulic system - see Chapter 1070 Reg.G

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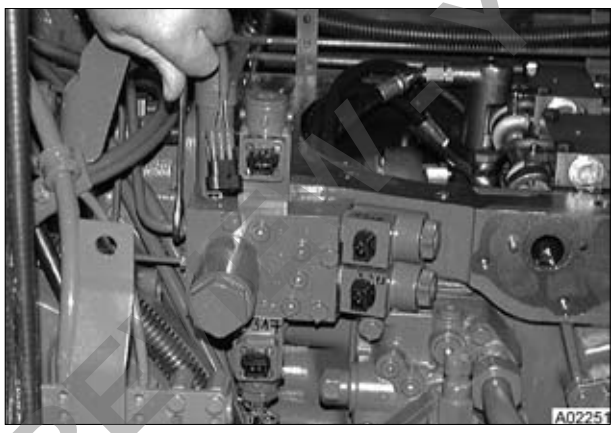
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Remove complete actuator unit from the gearbox housing.

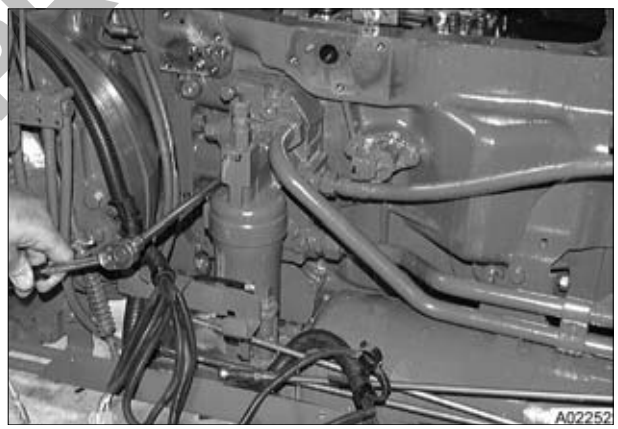


Close pressure hose of clutch actuation system with hose-clamp hook X 899.980.188 (prevents feed reservoir from draining).



Unscrew pressure pipe and bleed line of clutch actuation system from valve unit.

Then remove the complete valve block.

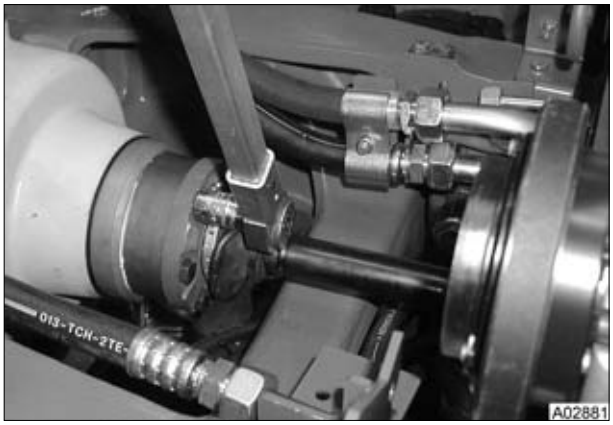


Remove pressure filter.

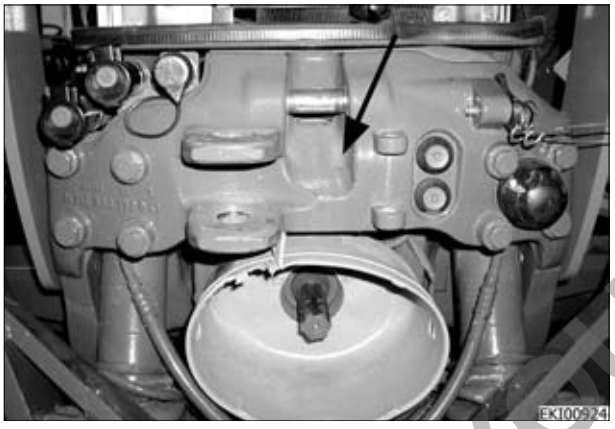
Unscrew hydraulic line from valve housing.

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Tighten hexagon screws to **95 Nm** .



Tighten hexagon screws to **295 Nm** .

Fill front PTO with transmission oil - for details of quantity please see
Chapter 0000 Index A - Fuels and lubricants

Connect plug to solenoid valve Y011 and speed Hall-effect sensor B002.

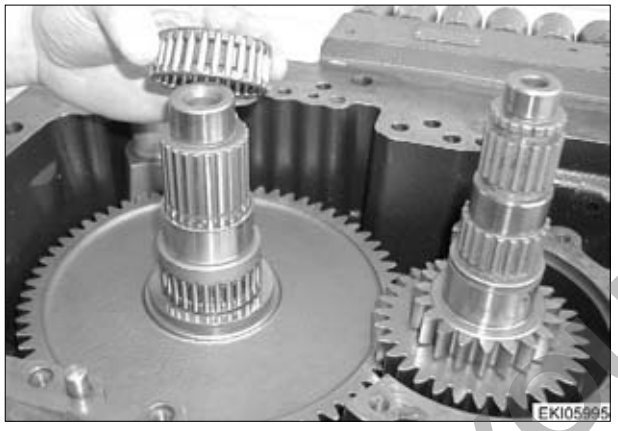
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EKI05158

Heat inner race (13) of needle bearing to approx. 80°C and press in as far as stop



EKI05158

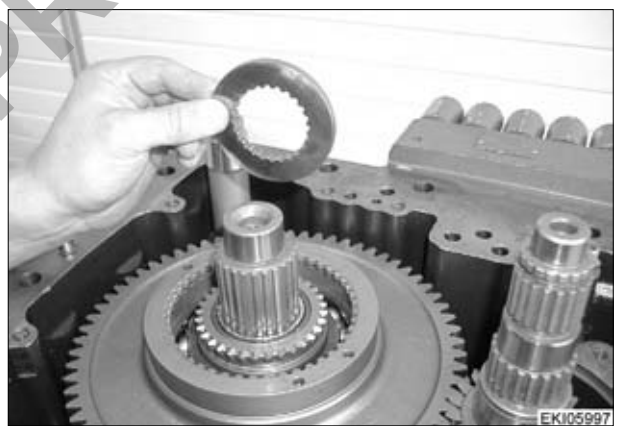
Fit needle roller and cage (14)

Oil needle bearing



EKI05158

Fit preassembled gear set (540/1000 rpm)



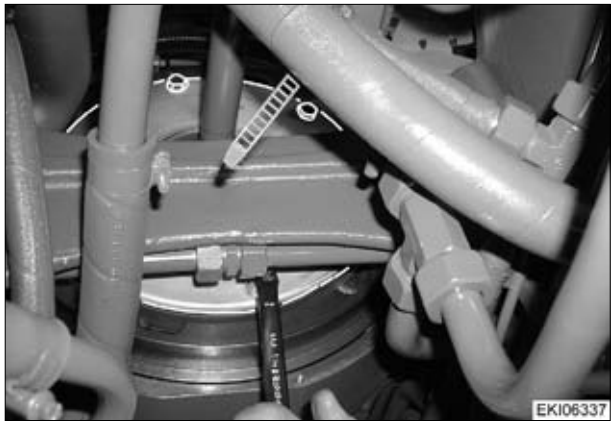
EKI05158

Fit spacer (12).

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Farmer 400 Fav 700 FENDT 700 / 800 Vario	Transmission / Hydrodamp **Installation and removal of hydrodamp**	**G**



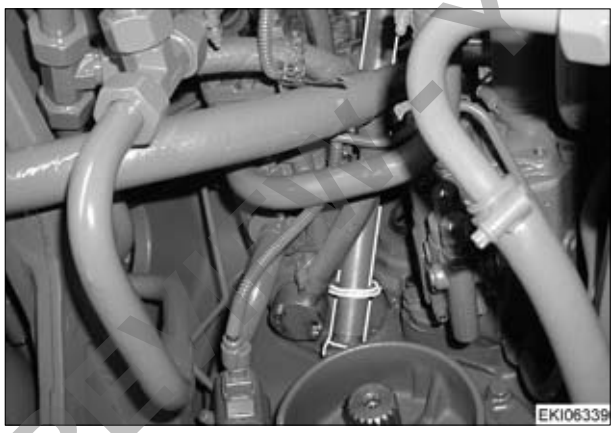
EKI05157

Unscrew hydrodamp (1)



EKI05157

Pull hydrodamp (1) upward to remove



EKI05157

Note:
When removing the hydrodamp (1), take note of the position of the drive shaft (6)



EKI05157

Insert hydrodamp (1) end of drive shaft (6)

Remove O-ring (7) and slide drive shaft (6) through to back

Remove hydrodamp (1) and drive shaft (6)

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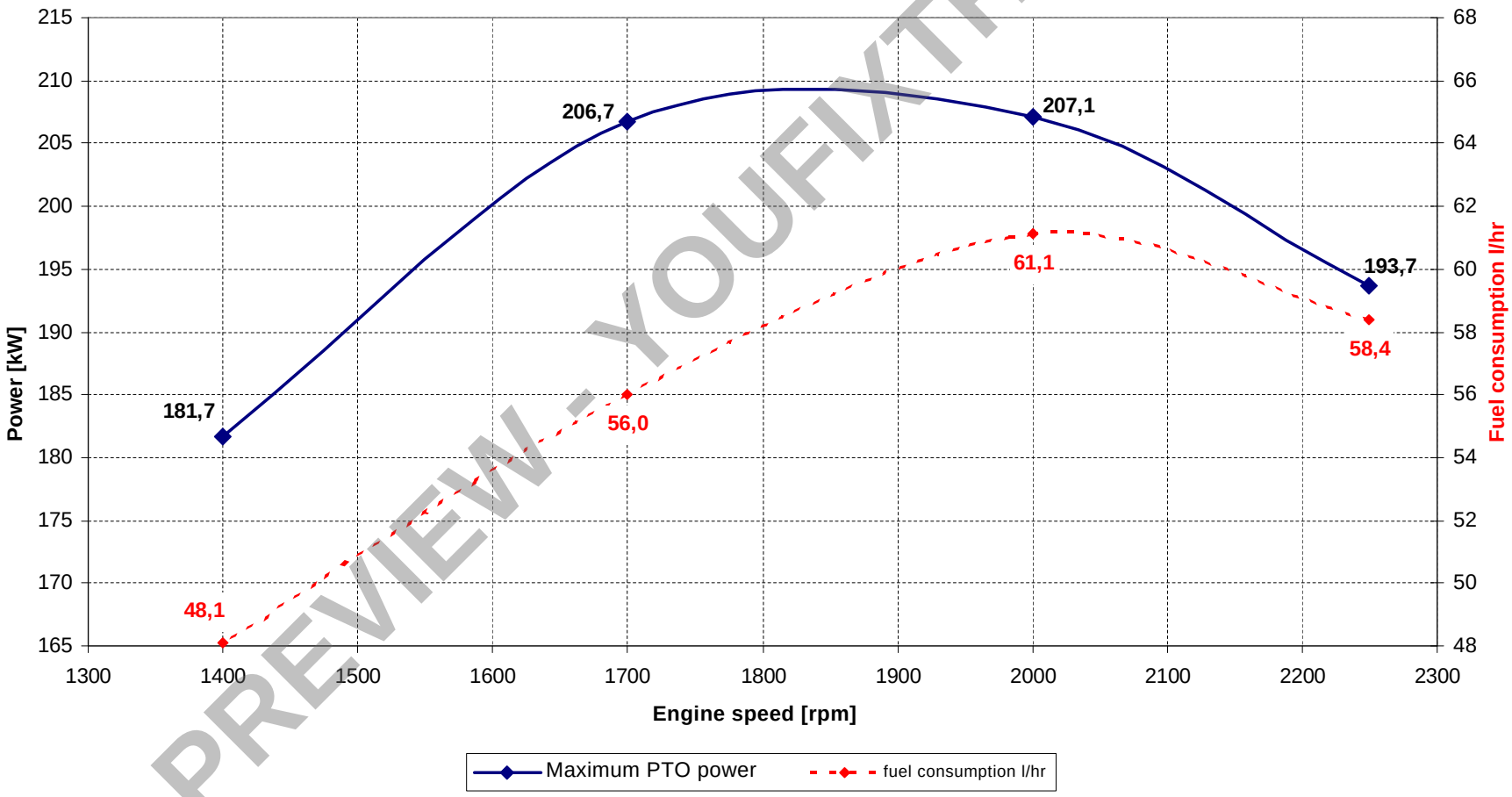
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FENDT 930 Vario ab Fg.-Nr. 0001

FENDT 930 220 kW / 2250 min-1

Max. PTO power acc. to ISO 1585 and fuel consumption

(tractor with at least 200 operating hours, ambient temperature 20°C to 25°C, at sea level).



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Farmer 400 ***Fav 700*** ***Fav 900***	Front axle / Suspension **Control system function charts**	**A**

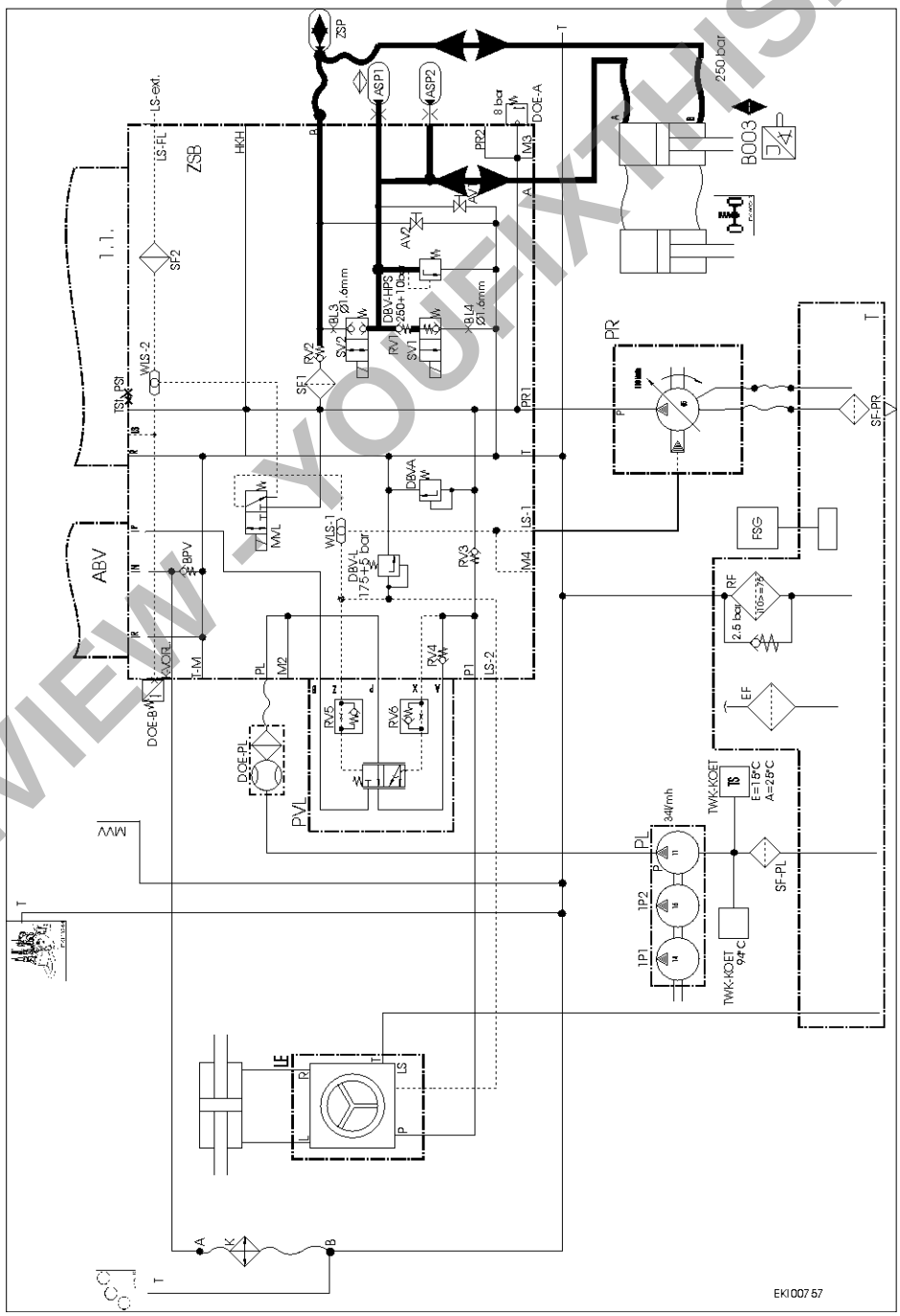
Operational status: "Suspension locked" = "Suspension OFF"

Key: The active position of the relevant valves is marked.

Note: The FARMER 400 has just one suspension cylinder, and thus only one accumulator, ASP1, is available.

Function

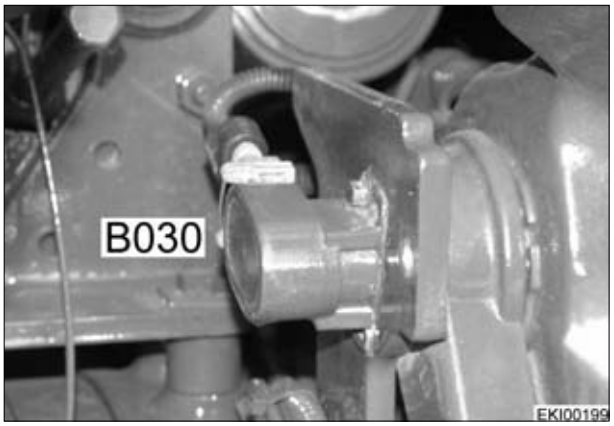
- Axle is hydraulically locked, there is a constant pressure of 200 bar on rod side.
- This pressure cannot be relieved by key command or by switching engine off.
- This 200 bar pressure with accumulator volume ZSP (=energy!) must always be relieved when repair work is carried out between front-axle suspension and central control block ZSB!
- To do so, open stopcocks AV1 and AV2. This causes pressure in central control block to be discharged to tank.
- See also "Safety instructions" - Chapter 0000 Index A



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Farmer 400 *Fav 700* *Fav 900*	Power lift / EPC electrohydraulic power lift control **B030 - position sensor, functional description**	**A**

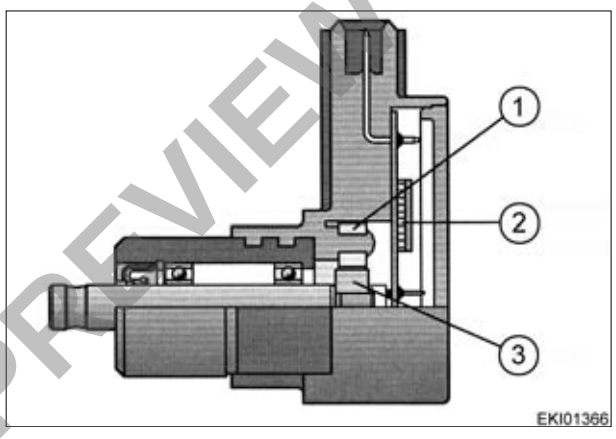


B030 - position sensor

The role of the inductive position sensor B030 is to record angular information.
The mechanical angular information is transmitted via a shaft to the rotor which is made of magnetically soft material.
The induction in the two spools changes as a function of the angular position, because of the eccentricity of the rotor.

The position sensor B030 works on the inductive voltage divider principle.
An integral electronic system generates an alternating voltage to supply the inductive voltage divider.
The output signal is demodulated (rectified) in turn and is then available as a voltage signal for further processing in the EPC e-box A005.

Features of position sensor B030
- Inductive position sensor measuring element
- Shaft can be rotated mechanically.
- Integrated electronics with temperature compensation
- Output angle proportional to angle
- Neutral point and sensitivity calibrated.



Design of position sensor B030

1 = Stator
2 = Integrated electronics
3 = Rotor (eccentric)

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Farmer 400 *Fav 700* *Fav 900*	Power lift / Electrohydraulic control EPC **Slip control performance test**	**E**

Danger:
During the slip control performance test (stationary test) please ensure that all 4 wheels of the tractor are jacked up because of the risk of an accident!

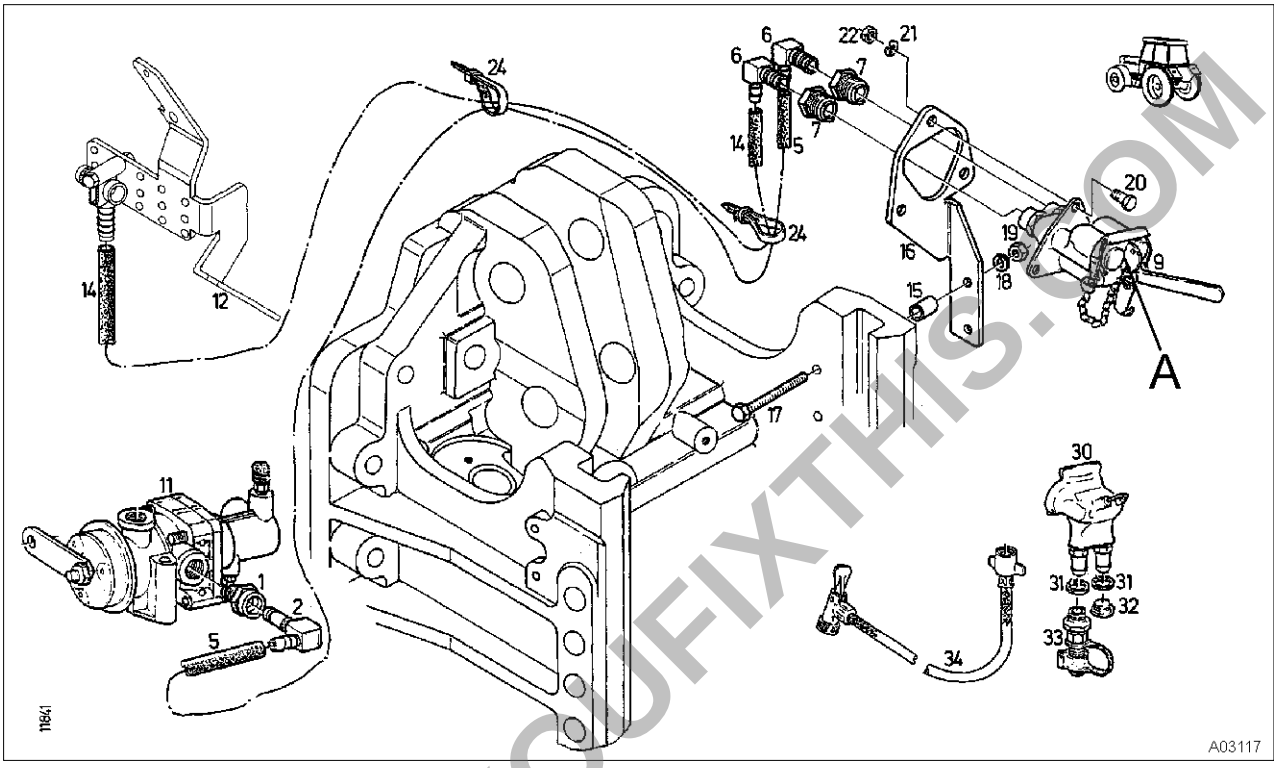
Engage 4WD when tractor is jacked up.

Slip control test when stationary		
Test stages		**Meaning / explanation**
1.	Load bottom link	
2.	Jack tractor up (all 4 wheels)	
3.	Engine running / tractor stationary	
4.	Set position/draft force hybrid control to 30% draft force ratio at terminal A008	
5.	Unlock rear EPC	
6.	Rapid lift control to Lower = control action	
7.	Set depth control such that load weight is just above ground	
8.	Pull away at approx. 5-6 km/h	
9.	Required reaction: rear power lift remains in set position.	
10.	Activate radar sensor A011 on terminal A008	
11.	Required reaction: rear power lift rises and "Raise" arrow is displayed on terminal A008	Bevel pinion speed sensor B015 displays a speed. Radar sensor A011 shows speed of 0 km/h (slip).

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9. Italian specificaation



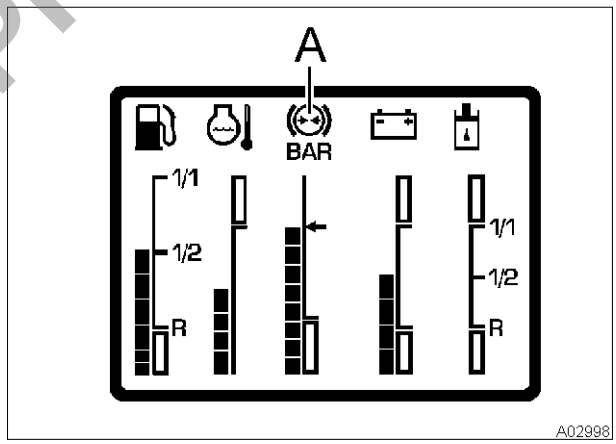
- Screw coupler head (A) in place.

2 x ring
2 x M8x65 8.8 hexagon bolt
2 x spring washer
2 x M8 hexagon bolt

10. Adjust trailer advance-braking control system

For details of adjusting the trailer advance-braking control system please refer to the Favorit 700 workshop manual, chapter 1070, section E.
Adjustment of magnet for solenoid switch (S005 / S006).

11. Activate air tank pressure LCD



Air tank pressure LCD (A)

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A004 Bedienungskonsole
Masse Sensorik
Masse Elektronik
X
X
+UB 30
+UB const 8.5V
Ein/Aus +15
CAN LOW
CAN HIGH
+ UB 30
X033

+UB 30E X051 23 F042 10A 24 WF1215, rt, 1
+UB 15E X051 27 F044 5A 28 WF1263, ge, 1
+UB 15E X051 31 F046 5A 32
+UB 30E X051 17 F039 10A 18
+UB 58 X051 3 F032 5A 4 WF1408, gr, 0.5
+UB 30E X051 19 F040 5A 20 WF1214, rt, 1
+UB 15 X051 37 F049 5A 38 WF1255, ge, 1
+UB 15E X051 35 F048 15A 36 WF1256, ge, 1
+UB 30 X050 7 F004 15A 8

WF1473, ge, 0.5

A005 Elektronikbox EHR
Masse
CAN LOW
CAN HIGH
+UB 30
Masse
+UB 30
+ UB 15
X
X
X034
WF0981, rt, 1
WF0960, rt, 1
WF0958, ge, 1

+UB 15E X051 29 F045 5A 30
+UB 30E X051 21 F041 40A 22 A002 Elektronikbox
Masse Sensorik
Masse Elektronik
X
X
+UB 30
+UB const 8.5V
Ein/Aus +15
CAN LOW
CAN HIGH
+ UB 30
X031
WF1202, rt, 0.5
WF1200, rt, 4
WF1201, rt, 1
WF1014, rt, 1
WF1015, rt, 1
WF1016, rt, 1
WF1017, rt, 1
WF1018, rt, 1
WF1461, ge, 0.5
WF1460, ge, 1
X628

A008 Terminal
+ Ub 30
+ Ub 15
Masse
CAN +
Masse Elektr. CAN-
LBS CAN +
LBS CAN -
X036
1 rt.1
2 gr.1
3 br.1
4 bl.1
5 gn.1
6 ge.1
7 rosa.1
8 ws.1

WF1254, ge, 1
WF1209, rt, 1

X102
A007 Kombiinstrument

WF1216, rt, 0.5
WF1217, rt, 0.5
WF1257, ge, 0.5
WF1258, ge, 0.5
WF1259, ge, 0.5
WF1260, ge, 0.5
WF1261, ge, 0.5
WF1262, ge, 0.5

X637

X647
WF0953, ge, 1 → BLATT 22, TEIL X250, PIN 1
WF0959, ge, 1 → BLATT 22, TEIL X005_P, PIN 7

X661
WF1332, br_ws, 0_5
G-BUS
+
4 3 2 1

X200
A013
A17 A12 A11 A10 A9 A8 A7 A6 A5 A4
C10 C9 B9 B8 A18 A16 A15 A14
A1 A13 A3 A2
Verpoldiode
G-Bus
LBS-Anschluss

X620
WF1210, rt, 0.5
WF1346, br_ws, 0_5
K - Bus
X201
C17 C5 B15 B14 B12 B11 B10 C4 B18 B16 C1 C13 B17 B4 C8 C7 C6 B7 B6 B5 B1 B13 B3 B2 C3 C2 C12 C11
Verpoldiode
K-Bus
A013

Electronic system power supply - Sheet 19
- European version -

Farmer 409/410/411/412 Vario from .. / 1001 - 4000

411.901.000.004_a

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A005 *Elektronikbox EHR*

Masse
CAN LOW
CAN HIGH
+UB 30
Masse
+UB 30
Wahre Vorfahrt
+ UB 15
Hubwerkstatus

X034: 9, X, 33, 14, X, X, 10, 45, 47, X, 17, X, X, 6, X, X, 13, X, X, X

+UB 58

X051: 41 — F051 10A — 42

WF1125, ge, 1

X619

WF1380, br_ws , 1

X008: 1 2 3 4 5 6 7

WK584, ws, 1
WK1380, br_ws , 1

Schnittstelle zur Signaluebertragung

nach DIN 9684- 1

X007: 1 2 3 4 5 6 7

Drehzahl Heckzapfwelle — WK553, ws, 1
Tatsaechliche Fahrgeschwindigkeit — WK552, ws, 1
Theoretische Fahrgeschwindigkeit — WK0551, ws, 1
Hubwerkstatus — WK963, ws, 1
Stromversorgung — WK1125, ge , 1
Betriebserde — WK1316, br , 1

X029_P: 1 2 3 4 5 6 7 8

X029_S: 1 2 3 4 5 6 7 8

WF0553 , ws, 0.5
WF0552 , ws, 1
WF0551 , ws, 0.5
WF0963 , ws, 1
WF0585 ws 0.5

X534 — AUFBAU

WF0585, ws, 0.5

WF0551 , ws, 0.5
WF0553 , ws, 0.5
WF0962 , ws, 0.5

X101: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

A007 *Kombiinstrument*

X100: 1 2 3 4 5 6 7 8 9 11 12 10 13 14 15 16 17 18 19 20 21 22 23 24 25 26

A007 *Kombiinstrument*

Implement socket and event counter socket - Sheet 18

Farmer 409/410/411/412 Vario

411.901.000.004_b

FENDT Service-Training Dokumentation 11/2003

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+UB 15

X050 27

F014 25A

28

S033

X247

2 3 4 1 +

WH0270, ws, 1.5
WH0271, ws, 2.5
WH0272, ws, 4
WH1126, ws, 4

1 2 3 4

X013_P

X013_S

1 2 3 4

WF1126, sw, 4

X553

MP_FAHRERST

WF0270, ws, 2.5
WF0271, ws, 2.5
WF0272, ws, 4
WF1396, br, 4

X027_P

1 2 3 4

X027_S

1 2 3 4

br 4
or 4
rt 2,5
gn 2,5

Heizung

M

M008

Heater - Sheet 15

Farmer 409/410/411/412 Vario

412.900.000.001

FENDT Service-Training Dokumentation 01/2006

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Farmer 400 *Fav 700* *Fav 900*	Electrics / General system **A007 - Instrument panel**	**E**

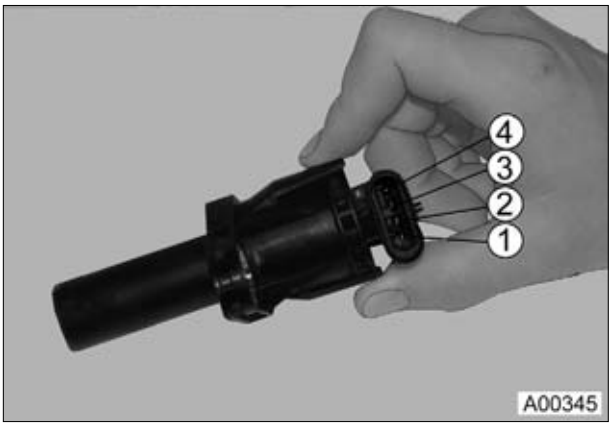
Separation point X102 (white)			
Vehicle ground			
Ignition ON			
Pin	**Pin description**	**Pre-condition**	**Signal**
1..2	Not assigned		
3	X051 - Fuse holder 2 UB58, F032	Side lamp	12 VDC to 14 VDC
4..8	Not assigned		
9	X051 - Fuse holder 2 UB15, F049		12 VDC to 14 VDC
10	X051 - Fuse holder 2 UB15, F049		12 VDC to 14 VDC
11	Not assigned		
12	A006 - Keypad, dashboard front		12 VDC to 14 VDC
13	Not assigned		
14..17	X643 - Connector ground		
18,19	X051 - Fuse holder 2 UB30, F040		12 VDC to 14 VDC
20..23	X051 - Fuse holder 2 UB15, F049		12 VDC to 14 VDC
24	Not assigned		
25	A003 - Drive switch	Dimmer	12 VDC to 14 VDC
26	Not assigned		

Note:
All readings +/- 10%

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Farmer 400 *Fav 700 / 900* *F 700 / 800 / 900 Vario*	Electrics / General system **B014 - Speed sensor for hydrostatic accumulator shaft**	**E**



Pin	Function
1	Ground
2	Speed signal
3	+ supply
4	Rotational direction sensor

NOTE:
Connect adapter cable X 899.980.246.206 directly to component B014.
Switch ignition ON

Measurement	Pin	Specified value	Pre-condition	Possible cause of fault
Supply	3	8.5 VDC		Fine wire fuse (16) in A013 or in wiring
Ground	1			

Speed signal	2	3.0 VDC	Tractor moving at 5 km/h approx.	A) Reading 7.3 VDC: fault in component. B) Reading 0 VDC: - Pull out component connector - If reading 0 VDC - fault in A002 (PIN 13) or in wiring - If reading is 7.3 VDC - fault in component.
		1.0 VDC or 5.0 VDC	Tractor stationary	
Ground	1			

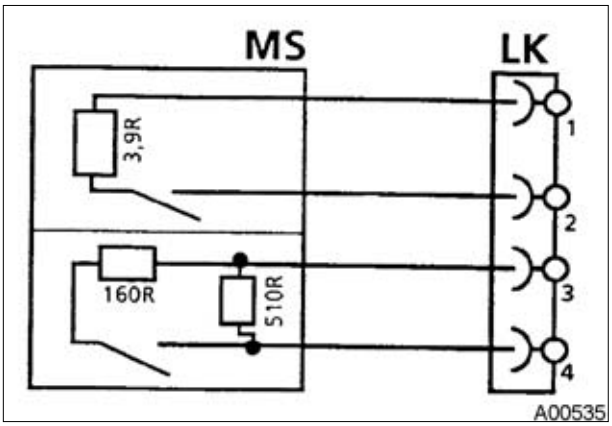
Rotational direction	4	5.1 VDC	"Forward" at 5 km/h approx.	A) Reading 8.0 VDC: fault in component B) Reading 0 VDC: - Pull out component connector - If reading 0 VDC - fault in A002 (PIN 42) or in wiring. - If reading 8.0 VDC - fault in component.
		2.4 VDC	"Reverse" at 5 km/h approx.	
Ground	1			

Measuring points on A002 - e-box	Pin
Ground	1
Speed signal	13
Rotational direction	42

NOTE:
Checking A002 - E-box, Chapter 9000 Reg. E

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Farmer 400 *Fav 700 / 900* *F 700 / 800 / 900 Vario*	Electrics / system in general **S015 - handbrake switch**	**E**



Pin	Function
1	Not assigned
2	Not assigned
3	Signal
4	Earth

Note:
Connect adapter cable X 899.980.246.206 directly to component S015.
Ignition "ON".

Test	Pin	Target value	Condition	Possible cause of fault
Signal	3	2.4 VDC	Handbrake off	
		5.1 VDC	Handbrake on	
Earth	4			

Measuring points on A004 - control console	Pin
Earth	1
Signal	18

Note:
Checking A004 - control console, Chapter 9000 Index E

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Farmer 400 *Fav 700 / 900* *F 700 / 800 / 900 Vario*	Electrics / system in general **Y014 - "Raise" suspension solenoid valve**	**E**

Warning:
Solenoid valves Y013 / SV1 and Y014 /SV2 look similar outwardly, but they must not be confused!
Distinguishing features:
Solenoid valve Y013 / SV1 = valve body yellow-chromed finish and no counterbore
Solenoid valve Y014 / SV2 = valve body white-chromed finish with counterbore



Pin	Function
1	12 volt actuation
2	Vehicle earth

Note:
Ignition "OFF".
Connect adapter cable X 899.980.246.201 directly to Y014 - "Raise" suspension solenoid valve.

Test	Pin	Target value	Condition	Remark
Signal	1	8 ohms		
Earth	2			

Note:
Ignition "ON"

Test	Pin	Target value	Condition	Possible cause of fault
Signal	1	12 VDC	Suspension: Raise	
Earth	2			

Note:
Connect e-adapter box 899.980.208.100 directly to A002 - e-box.
Ignition "ON".
"Load valve" Y012 / MVL must be operational for movement to be carried out.

Test	Pin	Target value	Condition	Possible cause of fault
Actuation	66	1.5 A	Suspension: Raise	
			Switch toggle switch of e-adapter box pin 66 to Isolate	

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Farmer 400	Electronics / General system **Vario 400 electronics concept**	**A**

G bus * = Transfer rate 250kBit/s

K - Bus ** = Transfer rate 100kBit/s

LBS *** = Transfer rate 125kBit/s

ECU = Electronic Control Unit

EPC OBE = Electronic Power lift Control (On Board Electronics)
The hydraulic control valve and the electronic control unit (A014 - ECU, power lift) form a unit

ISO / LBS = Agricultural - BUS - System (for the control of mounted implements, e.g, field sprayers)

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