OPERATING MANUAL
FENDT
916 Vario
920 Vario
924 Vario
926 Vario
930 Vario



930.000.000.014 Englisch

OPERATING MANUAL

FENDT 916 Vario

From chassis number 916 .. 7001

FENDT 920 Vario

From chassis number 920 .. 7001

FENDT 924 Vario

From chassis number 924 .. 7001

FENDT 926 Vario

From chassis number 926 .. 7001

FENDT 930 Vario

From chassis number 930 .. 2001

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Dear Customer,

Please note the following:

- Before using the tractor, carefully read through this Manual to familiarize yourself with all operating controls and their functions before you begin work. This also applies to the operating instructions of the implement manufacturer.
- Follow all the operating and maintenance instructions. If you do so, your tractor will give you many years of economic and trouble-free operation. You will find an overview of all maintenance operations in the Service Schedule in this Manual.
- Maintenance and repair work should be carried only at your service workshop. see also the "Important service and maintenance information".

Authorised use

This tractor is designed only for normal agricultural operations or similar purposes, for example in municipal applications.

Any other type of use is considered unauthorised. The manufacturer will not be liable for any damage resulting from such uses, which will be entirely at the owner's risk.

Authorised use also means fulfilling the operating, service and maintenance conditions set out by the manufacturer.

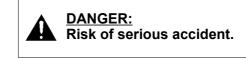
Operation, maintenance and repair of the tractor is restricted to persons who are familiar with this kind of work and aware of the inherent dangers.

All relevant accident prevention regulations and all generally accepted health & safety standards and road traffic regulations must be observed The manufacturer does not accept liability for damage resulting from unauthorised modifications.

Marking of places that affect your safety

Make sure that any other users have read all the safety instructions as well.

The various levels of safety instructions can be distinguished as follows:



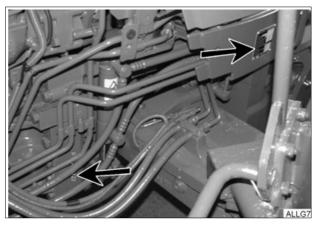
A WARNING: Risk of injury.

A CAUTION: Possible risk of injury.

The Operating Manual is an integral part of the vehicle package and must be passed on to any subsequent owner in the event of resale. The attention of the new owner should be drawn to this information.

If this Manual is lost or damaged and you need a new one, please contact your Fendt dealer, There you will be able to purchase a replacement.

Vehicle Identification Number



The Vehicle Identification Number is on the right frame and also stamped on the rating plate.

All specifications in the Manual are subject to the usual tolerances. We reserve the right to make design changes as part of technical further development, without making alterations to this Manual. The drawings and illustrations in the manual are used for function description, some of the items shown are not necessarily included in the vehicle delivery contents.

SAFETY INSTRUCTIONS......9

OPERATION14			
1.	Driver seat14		
1.1	Super deluxe seat14		
2.	Display instruments and operating controls15		
2.1	Front controls15		
2.2	Glow and starter switch16		
2.3	Combination switch16		
2.4	Steering wheel adjustment16		
2.5	Quick reverse16		
2.6	Dashboard17		
2.7	Indication of fluid levels18		
2.8	Operating status display18		
2.9	Multiple display19		
2.10	Operating controls, right19		
2.11	Multi-function armrest20		
2.12	Operating console, right side21		
2.13	Vario terminal22		
2.14	Camera function26		
2.15	Quick Jump26		
2.16	Cab top section, front28		
2.17	Cab top right side28		
2.18	Power outlets		
2.19	Reset function		
3.	Heating and ventilation31		
3.1	Heater with 3-speed blower31		
3.2	Auxiliary ventilation in cab roof32		
3.3	Air conditioning32		
4.	Rearwiew mirror33		
5.	Start-up33		
5.1	Daily check33		
5.2	Cold weather operation34		
5.3	Tool box		
6.	Starting and stopping the engine		
6.1 6.2	Memory function		
	Starting the engine		
6.3 6.4	Jump starting		
6.5	Tow-starting		
6.6	Stopping and immobilising the tractor37		
7.	Vario transmission		
7.1	Joystick		
7.2	Neutral position		
7.3	Selecting acceleration rates		
7.4	Driving mode selector		
7.5	Driving the tractor40		
7.6	Changing direction of travel42		
7.7	Programmed changes of travel direction43		

7.8	Cruise control	
7.9	Load limit control	
7.10	Storing engine speeds	
7.11	Towing instructions	48
8.	Fuel consumption measurement	48
8.1	Activating fuel consumption	
	measurement	48
9.	Tractor Management System (TMS)	49
9.1	Engine management system	
9.2	Accelerator mode	
9.3	Setting engine speed range	51
10.	РТО	53
10.1	Rear PTO	
10.2	Engaging and disengaging rear PTO	
10.3	Front PTO	
10.4	Engaging and disengaging front PTO	
10.5	Calibrating rear and front PTO coupling	
11.	Four wheel drive (4-WD)	58
12.	Differential lock	58
13.	Front axle suspension	59
14.	Power lift and PTO automatic mode	60
14.1	Power lift automatic mode	60
14.2	PTO automatic mode	61
14.3	PTO automatic mode with power lift	62
15.	Brakes	63
15.1	Foot brake	63
15.2	Hand brake	63
15.3	Trailer brake	64
15.4	Engine brake	64
16.	Steering	65
16.1	Steering wheel adjustment	65
17.	Hydraulics	65
17.1	General notes on hydraulic operations	
17.2	Valve locking	66
17.3	Valve equipment	67
17.4	Operating the valves	
17.5	Priority function	
17.6	Setting the valves	
17.7	External valve actuation	
17.8	Hydraulic connectors	74
18.	Electronic lifting gear control, rear	
18.1	Controls	
18.2	EPC safety lock	
18.3	Control panel functions	
18.4 18.5	Working with the EPC	
18.5 18.6	Electronic slip control Electro-hydraulic external control	
10.0	LICOLO-HYURAUNG EXIEMAI COMUUL	

NUMERICAL INDEX

18.7	Electronic power lift control / double action operation (EPC/DA)
18.8	Implement socket85
19.	Three-point link85
19.1	Lower links
19.2	Extendable lifting struts86
19.3	Mechanical side locks87
19.4	Top link87
20.	Front power lift88
20.1	Lower links
20.2	Standard version
20.3	Comfort version90
21.	Trailing devices96
21.1	Calculation of trailer weights
21.2	Trailer bracket
21.3	Hitching a trailer manually97
21.4	Automatic trailer coupling
21.5	Ball coupling, drawbar, piton fix
21.6	Hydraulic trailer hitch102
22.	Compressed air system104
22.1	Operating
22.2	Maintenance
23 .	Additional ballasting106
23.1	Front ballast
23.2 23.3	Front/rear load weights106 Wheel weights107
<u> </u>	
	-
23.4	Water ballasting of tyres107
23.4 24.	Water ballasting of tyres107 Track adjustment108
23.4 24. 24.1	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108
23.4 24.	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108
23.4 24. 24.1	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110
23.4 24. 24.1 24.2 25. 25.1	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110Conditions for use110
23.4 24. 24.1 24.2 25.	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110
23.4 24. 24.1 24.2 25. 25.1	Water ballasting of tyres 107 Track adjustment 108 Lighting wide vehicle 108 Rear axle stub 108 Twin tyres 110 Conditions for use 110 Twin tyres 110 On-board computer 111
23.4 24.1 24.2 25.1 25.2	Water ballasting of tyres 107 Track adjustment 108 Lighting wide vehicle 108 Rear axle stub 108 Twin tyres 110 Conditions for use 110 Twin tyres 110
 23.4 24.1 24.2 25.1 25.2 26. 	Water ballasting of tyres 107 Track adjustment 108 Lighting wide vehicle 108 Rear axle stub 108 Twin tyres 110 Conditions for use 110 Twin tyres 110 On-board computer 111 Setting the clock 111 Adjusting speed indicator 111
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 	Water ballasting of tyres 107 Track adjustment 108 Lighting wide vehicle 108 Rear axle stub 108 Twin tyres 108 Conditions for use 110 Twin tyres 110 On-board computer 111 Setting the clock 111 Adjusting speed indicator 111 Fault display 112
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 26.4 	Water ballasting of tyres 107 Track adjustment 108 Lighting wide vehicle 108 Rear axle stub 108 Twin tyres 108 Twin tyres 110 Conditions for use 110 Twin tyres 110 On-board computer 111 Setting the clock 111 Fault display 112 Selecting tyre size 112
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 	Water ballasting of tyres 107 Track adjustment 108 Lighting wide vehicle 108 Rear axle stub 108 Twin tyres 108 Conditions for use 110 Twin tyres 110 On-board computer 111 Setting the clock 111 Adjusting speed indicator 111 Fault display 112
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 26.4 	Water ballasting of tyres 107 Track adjustment 108 Lighting wide vehicle 108 Rear axle stub 108 Twin tyres 108 Twin tyres 110 Conditions for use 110 Twin tyres 110 On-board computer 111 Setting the clock 111 Fault display 112 Selecting tyre size 112
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 26.4 26.5 	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110Conditions for use110Twin tyres110On-board computer111Setting the clock111Adjusting speed indicator111Fault display112Selecting tyre size112Backup indicators113
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 26.4 26.5 27. 	Water ballasting of tyres 107 Track adjustment 108 Lighting wide vehicle 108 Rear axle stub 108 Twin tyres 108 Twin tyres 110 Conditions for use 110 Twin tyres 110 On-board computer 111 Setting the clock 111 Adjusting speed indicator 111 Fault display 112 Selecting tyre size 112 Backup indicators 113 Computer 114 Select main menu 114
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 26.4 26.5 27. 27.1 	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110Conditions for use110Twin tyres110On-board computer111Setting the clock111Adjusting speed indicator111Fault display112Selecting tyre size112Backup indicators113Computer functions114Select main menu114Setting measurement and counting
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 26.4 26.5 27.1 27.2 27.3 	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110Conditions for use110Twin tyres110On-board computer111Setting the clock111Adjusting speed indicator111Fault display112Selecting tyre size112Backup indicators113Computer114Computer functions114Select main menu114Setting measurement and counting direction115
 23.4 24.1 24.2 25.1 25.2 26.1 26.3 26.4 26.5 27.1 27.1 27.2 	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110Conditions for use110Twin tyres110On-board computer111Setting the clock111Adjusting speed indicator111Fault display112Selecting tyre size112Backup indicators113Computer functions114Select main menu114Setting measurement and counting direction115Manually triggered measuring and counting115
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 26.4 26.5 27.1 27.2 27.3 	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110Conditions for use110Twin tyres110On-board computer111Setting the clock111Adjusting speed indicator111Fault display112Selecting tyre size112Backup indicators113Computer114Computer functions114Select main menu114Setting measurement and counting direction115Manually triggered measuring and114
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 26.4 26.5 27.1 27.2 27.3 27.4 	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110Conditions for use110Twin tyres110On-board computer111Setting the clock111Adjusting speed indicator111Fault display112Selecting tyre size112Backup indicators113Computer114Computer functions114Select main menu114Setting measurement and counting direction115Manually triggered measuring and counting115Operating automatic measurement and counting116
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 26.4 26.5 27.1 27.2 27.3 27.4 27.5 	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110Conditions for use110Twin tyres110On-board computer111Setting the clock111Adjusting speed indicator111Fault display112Selecting tyre size112Backup indicators113Computer114Computer functions114Select main menu114Setting measurement and counting direction115Manually triggered measuring and counting116Storing the settings117
 23.4 24.1 24.2 25.1 25.2 26.1 26.2 26.3 26.4 26.5 27. 27.1 27.2 27.3 27.4 27.5 28. 	Water ballasting of tyres107Track adjustment108Lighting wide vehicle108Rear axle stub108Twin tyres110Conditions for use110Twin tyres110On-board computer111Setting the clock111Adjusting speed indicator111Fault display112Selecting tyre size112Backup indicators113Computer114Computer functions114Select main menu114Setting measurement and counting direction115Manually triggered measuring and counting115Operating automatic measurement and counting116

29.	Implement control120
29.1	Assigning control terminal120
29.2	Loading the implement software for implement control
29.3	Setting up the control terminal for implement control
29.4	Operating the implement with the joystick
29.5	Implement diagnosis function125
30.	Variotronic Ti126
30.1	Functions126
30.2	Triggers126
30.3	Menu functions127
30.4	Operating129
30.5	Storing data133
30.6	Retrieving stored data134
30.7	Changing operational sequences manually
30.8	Changing relative factors
30.9	Modifying configuration lists
30.10	Function indicator on the main menu138
30.11	Menu colours138
30.12	Messages for information138

CARE AND MAINTENANCE 139

1.	General	139
2.	Opening the bonnet	139
3.	Engine oil change	140
3.1	Draining engine oil	140
3.2	Replacing the engine oil filter	140
3.3	Filling with engine oil	141
3.4	Checking engine oil level	141
4.	Fuel system	142
4.1	Replacing the fuel filter	142
4.2	Bleeding the fuel system	143
4.3	Fuel prefilter	143
5.	Dry air filter	144
5.1	Vacuum check	144
5.2	Removing/installing the main cartridge.	144
5.3	Cleaning the main cartridge	145
5.4	Replacing safety cartridge	145
6.	Cooling system	145
6.1	Cleaning the cooling system	145
6.2	Checking the coolant level	146
6.3	Replacing coolant	146
6.4	Cleaning the cooling/heating system	146
7.	V belt	147
7.1	Right hand V belt	147
7.2	Left V-belt	147
8.	Brake and clutch system	148

NUMERICAL INDEX

9.	Front PTO149
10. 10.1 10.2	Transmission and axle drives149 Changing the transmission oil149 Checking the transmission oil level150
10.3 11 .	Changing the oil in the axle drives151 Four-wheel drive axle151
11. 11.1	Changing the oil in the front axle differential gear
11.2 11.3	Replacing the oil in front axle hub drives .152 Front axle suspension
12.	Power lift153
13. 13.1 13.2 13.3 14.	Hydraulic system153Checking oil level in hyrdraulic system153Changing the hydraulic oil154Hydraulic oil filter154Steering156
15.	Front wheels156
15.1	Checking toe-in
16. 16.1 16.2 16.3	Heating and ventilation157Removing the heater fan filter157Replacing the roof fan filter157Replacing the recirculating air filter158
17. 17.1	Air conditioning
17.2 18 .	Compressor V-belt
	Windshield washer system
19. 19.1	Cleaning the tractor
20. 20.1 20.2 20.3 20.4 20.5 20.6 20.7	Electrical and electronic systems160Battery
21. 21.1 21.2 21.3 21.4	Fuses 163 Fuse holder X050 164 Fuse holder X051 165 Fuse holder F060 - F067 166 Fuse holder (A013) 167
22. 22.1 22.2 22.3	Wiring diagrams168Legend for circuit diagrams168Colour coding for electric wires171Wiring diagrams171

IMPLEMEN	TS	204

1. Reversing device204

FAULTS AND REMEDIAL

Warning and fault messages	205
Warning messages	205
Fault messages	211
Clearing a warning or fault message	215
General faults	216
Variotronic Ti fault messages	223
Warning and information messages for implement settings	227
Flame starting system faults	228
Fault code tables	229
Emergency operation	245
	Warning messages Fault messages Clearing a warning or fault message General faults Variotronic Ti fault messages Warning and information messages for implement settings Flame starting system faults Fault code tables

TECHNICAL DATA......247

1.	Technical data	247
2.	Tyre pressures	251
3.	Tyre combinations	252
4.	Fuel and lubricants Vario 916 - 930	253
4.1	Bio-diesel	254
4.2	Bio hydraulic oil	254
5.	Lubrication chart	255
5.1	Filling points	255
5.2	Lubrication points	256

Safety and accident prevention regulations

WARNING:

Before every operation, check the tractor for road worthiness and operational safety. Carefully read the Manual and observe all safety instructions.

Safety signs on the machine must be replaced if damaged or lost.

General safety and accident prevention regulations

- 1. Follow the general safety and accident prevention regulations, as well as the safety information in this manual.
- 2. When driving on public roads, follow the usual traffic regulations!
- 3. Before starting work, familiarise yourself with all operating controls and their functions. Don't wait until after you have started working!
- 4. Start the engine from the driver seat only. Do not attempt to start by shorting across the starter terminals, as this can cause the tractor to move immediately!
- 5. Before starting up, check the area is clear (e.g. children). Ensure that nothing obstructs vision.
- 6. Never leave the engine running in a confined space!
- 7. The driver should wear close-fitting clothing. Avoid wearing loose-fitting garments!
- 8. Take extra care when handling fuel serious fire hazard. Never re-fuel in the presence of sparks or naked flames. Do not smoke when re-fuelling.
- 9. Before re-fuelling, turn off the engine and remove the ignition key. Do not re-fuel in confined spaces. Clean up spillages immediately!
- 10. To avoid fire hazard, keep the tractor clean.
- 11. Beware of leaking brake fluid and battery acid (these are toxic and corrosive).

Carrying passengers

- 1. Passenger should be carried only if the tractor is fitted with an appropriate passenger seat.
- 2. Do not carry passengers in any other other circumstances.

Driving the tractor

- 1. Driving speed must always be adapted to the current situation. Avoid sudden cornering when driving uphill or downhill, or across gradients. Disengage the differential lock when cornering. Never disengage the clutch to shift gears when travelling downhill!
- 2. Make sure all trailers and implements are properly hitched. Driving characteristics, steering and braking are affected by mounted implements, trailers and ballast weight. Therefore, always ensure that there is adequate steering and braking capacity.
- 3. Observe the maximum permissible gross vehicle weight, axle loads and tyre load capacity, especially if heavy implements are attached.
- 4. When negotiating bends with implements connected or hitched up, always allow for the overhang and oscillating weight of the implement.

Front loader operation

- 1. Never allow anyone to stand in the hazard area, or within the working range of the front loader. Keep the area clear of bystanders at all times. Do not operate the front loader unless there is a clear view of the entire working area - illuminate the area if necessary.
- 2. It is not permitted to use the standard loader (as supplied) as a working platform. If using the loader with a special working platform, additional safety measures are required.
- 3. Do not handle round bales, pallets etc. unless the loader is suitably equipped for this purpose. If loading objects that cannot be secured and may fall off, do not use the front loader unless the driving seat is protected by a robust canopy.

SAFETY INSTRUCTIONS

- 4. When the front loader is raised, the risk of the tractor tipping over is greater, and the braking effect at the rear axle may also be reduced. Adapt your driving style and ensure adequate ballasting at the rear. For additional loading, we recommend attaching the Fendt 870 kg additional weight at the three-point link fit wheel weights and fill the tyres if necessary.
- 5. Keep a safe distance from high-voltage cables.
- 6. When on public roads, bring the front loader into the transport position and secure it. Keep a maximum distance of 3.5 m between the implement and the centre of the steering wheel. If the forward projection exceeds 3.5 m, appropriate measures must be taken to guarantee safe traffic conditions (e.g. use people on foot acting as guides or mirrors at road junctions). Transporting equipment or materials with a front loader working implement, e.g. a scoop, is not permitted when travelling on public roads.
- 7. Danger from unintended lowering of the front loader. Always secure hydraulic lever at the end of operation. Before leaving the tractor, completely lower the front loader to the ground.
- 8. For safety reasons the front loader should be mounted and removed by one person onlythe driver himself.
- 9. Always keep hands away from the crushing and cutting areas while parts may still be moving.
- 10. Detach the front loader with the attached implement (bucket, fork) only on firm and level ground. Always use the supports provided.
- 11. The front loader must be parked and secured in such a way as to prevent unauthorised persons or children from causing it to tip over
- 12. When mounting the front loader, connect all hydraulic connections including the auxiliary return, if equipped in this way. Always connect hydraulic hose for cylinder load pressure to +. Take great care not to confuse connections since this may cause accidents through reversed functions, e.g. lifting instead of lowering. Before fitting the multiple coupler, remove the load from hydraulic hoses and unplug rear hydraulic connections, lower the power lift and operate only via EPC. Hydraulic fluid interflow can create danger from unintentional equipment motion.

Leaving the tractor

- 1. Make sure the tractor is properly secured against running off (parking brake, wheel chocks). Switch off the engine and apply the hand brake!
- 2. Remove the ignition key and lock the cab if necessary.
- 3. Never leave the tractor unattended while the engine is running.
- 4. Never leave the cab while the tractor is in motion.
- 5. Completely lower the mounted implement before leaving the tractor.

Mounted and trailing equipment

- 1. Only attach implements and trailers using the prescribed devices.
- 2. Use only trailers which comply with the country-specific regulations. Do not exceed maximum vertical bearing load. Ensure that the tractor-trailer brake system is functioning correctly.
- 3. Take special care when hitching trailers or implements!
- 4. Secure trailers and implements to prevent them rolling. Make sure that detached implements and components are safely parked.
- 5. Be sure all protection devices are correctly attached and in the safety position before operating the tractor.
- 6. When using the power lift, always remain well outside the travel range of the three-point link attachment!

PTO operation

- 1. Always switch off the engine, before fitting or removing the drive shaft. The PTO shaft must be in 0-position.
- 2. During PTO operations, allow no-one in the vicinity of the rotating PTO or drive shaft.
- 3. Make sure drive shaft and PTO are equipped with protective guards and sleeves.
- 4. After switching off the PTO, the attached implement may continue running due to the flywheel mass. In this case, do not go near the implement. Approach it only when it has come to a complete standstill.
- 5. When the drive shaft is removed, cover the PTO shaft with its protective cap.

Maintenance

- 1. Before maintenance and repair work, switch off the engine and remove the ignition key. Relieve pressure from implement lines, e.g. to the front loader.
- 2. Any person should keep clear of a lifted, unsecured load (e.g. tilted cab and similar).
- 3. Never open or remove any protection devices while the engine is running.
- 4. Never grasp leaking pressure lines. Pressurised fluids (diesel or hydr oil) escaping under high pressure can penetrate the skin and cause severe injuries. If this has occurred, seek medical advice at once to avoid the risk of serious infection.
- 5. Keep at a safe distance from hot areas.
- 6. Hydraulic accumulator and connected pipes are highly pressurised. Only remove and repair in accordance with instructions provided in Technical Manual.
- 7. To avoid eye injury, do not look directly at the surface of the activated radar sensor.
- 8. Dispose of oil, fuels and filters properly!
- 9. For fitting tires, specialist knowledge and special mounting tools are required.
- 10. Run the tractor for a short time, then retighten all wheel nuts and bolts; check them regularly. For correct torque values refer to TECHNICAL DATA.
- 11. Before working on the electrical system, always remove the ground strap from the battery. Observe the following, when carrying out electric welding. When carrying out electric welding on tractor or mounted implements, make sure that both battery terminals are disconnected. Attach the ground terminal as close as possible to the welding point.
- 12. Spare parts must at least meet the technical requirements stated by the manufacturer. You can ensure that this is the case by using genuine spare parts!

Advice for front loader maintenance:

- 1. Before undertaking maintenance work, lower the front loader to the ground, switch off the engine and remove the ignition key.
- 2. If the pipe fracture protection has engaged, support the load before starting repairs, and slowly retract the cylinder.
- 3. Hydraulic hoses deteriorate with age. Check the condition of hydraulic hoses at regular intervals, and replace them in good time.
- 4. After attachment and repair operations, drive the tractor for a short time then retighten all mounting screws and nuts and check them regularly.
- 5. Retighten eccentric bolt for front loader attachment, if necessary.

SAFETY INSTRUCTIONS

Location of safety signs



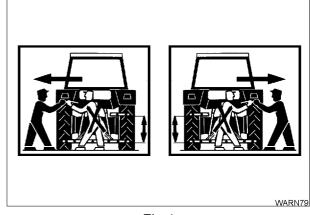
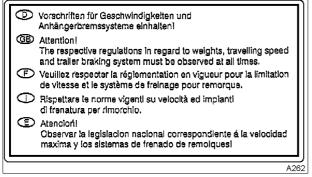


Fig.4

On the left and right rear mudguards beside the lifting gear control.



Inside the cab on the right.





Inside the cab on the right.



Fig.3

On the right rear mudguard.

At left front of hydraulic cylinder of front axle suspension.



Fig.6

On pressure reservoir of front axle suspension.

12

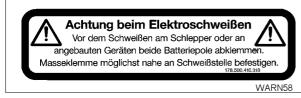


Fig.7

Inside the cab on left.

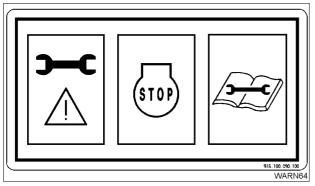


Fig.8

Inside the cab, on the cover of the emergency operation controls.



Fig.9

On the front loader forks, left and right.

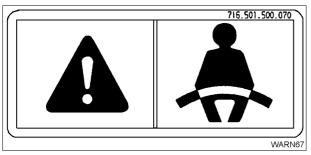


Fig.10

Inside the cab, on the left, on the transverse beam of the front windscreen.

OPERATION

1. Driver seat



WARNING:

Never adjust the seat while the tractor is moving (risk of accident). If a seat belt is available, always attach it.

1.1 Super deluxe seat

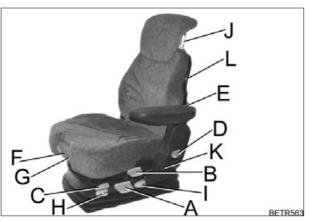


Fig.1

- A = Automatic weight and height adjustment.
- B = Swivel mechanism.
- C = Longitudinal adjustment.
- D = Backrest adjustment.
- E = Lumbar support (curvature), pneumatic operation.
- F = Seat bolster (depth adjustment).
- G = Seat bolster (tilt adjustment).
- H = Horizontal springing (on/off).
- I = Vertical springing (adjustable from soft to hard in four levels).
- J = Backrest extension.
- K = Behind the moulding: Seat belt fixing point.
- L = Seat heating.

2. Display instruments and operating controls

2.1 Front controls

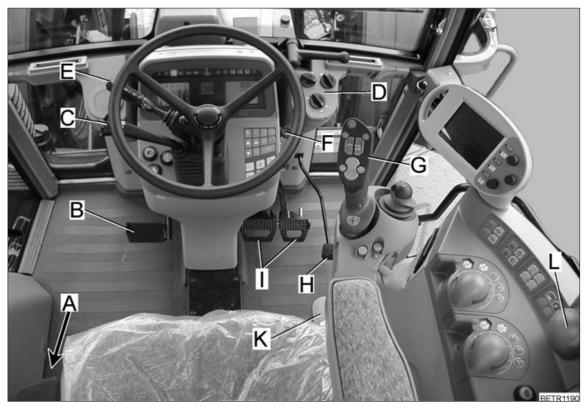


Fig.2

- A = Hand brake
- B = Clutch pedal
- C = Steering wheel adjustment and quick reverse.
- D = Heater and fan controls (see also OPERATION Section 3).
- E = Combination switch
- F = Heater starter switch
- G = Multi-function armrest
- H = Accelerator pedal
- I = Brake pedals
- K = Emergency operation controls (under the cover).
- L = Hand throttle

OPERATION

2.2 Glow and starter switch

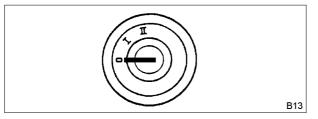


Fig.3

- 0 = Ignition off, key can be removed.
- = General ignition, key cannot be removed I + preheating (automatic).
- = Starting + ignition. Ш

2.3 Combination switch

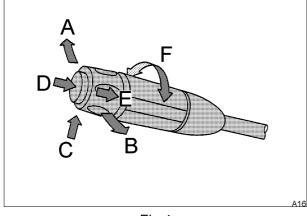


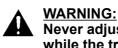
Fig.4

- = Right indicator. А
- В = Left indicator.
- = 1. With lights switched on: toggle low С beam, high beam.

2. With lights switched off headlight flasher.

- D = Horn
- = Windshield washer system (wipers run Е automatically).
- = Windshield wipers with intermittent and F continuous operation.

2.4 Steering wheel adjustment



Never adjust the steering wheel while the tractor is moving!

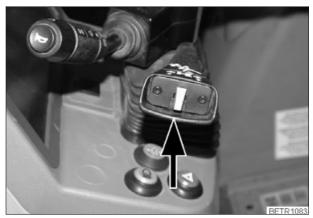


Fig.5

• Pull up lever and adjust steering wheel to the desired position (see also OPERATION Section 16).

2.5 Quick reverse

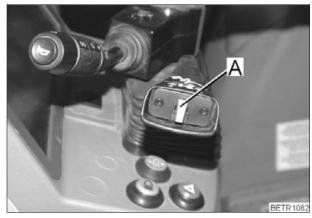


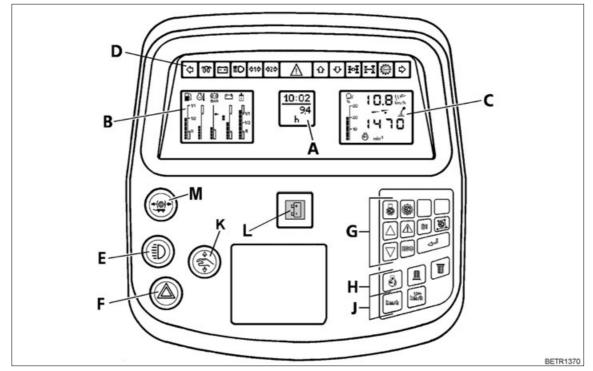
Fig.6

Press button (A).

0

The tractor slows to a standstill, then accelerates in the opposite direction up to previous transmission ratio (see also OPERATION Section 7.6).

2.6 Dashboard





Н

J

- A = Multiple display
- B = Indication of fluid levels
- C = Operating status display
- D = Indicator lamps
- E = Lights including side lights
- F = Hazard warning flasher switch
- G = Key pad for on-board computer (also see OPERATION Section 26).
- ∠ Left turn signal indicator, green.
- m Preheater indicator lamp, red.
- Alternator 2 not charging, red.
- ED High beam, blue.
- **♦1**♦ 1st trailer light indicator, green.
- **42**→ 2nd trailer light indicator, green.

A Hazard light, red.

- Forward direction of travel, green.
- **Reverse direction of travel, green.**
- 4-WD engaged, green.
- ► Differential lock engaged, red.

- Key pad for rpm indicators (also see OPERATION Section 2.8).
- Key pad for speed display (also see OPERATION Section 2.8).
- K = Emergency mode (also see FAULTS AND REMEDIAL ACTIONS Section 6).
- L = Alternator 1 not charging, red.
- M = Hydraulic trailer brake (optional), (see also OPERATION Section 15.3).

Cruise control on.

Right turn signal indicator, green.

If one of the indicator lamps for forward/reverse fails, back-up indicators can be activated on the multiple display (A) activation (see see OPERATION Section 26.5).

Automatic dimmer

for forward/reverse indicator lamps, 4-WD, differential lock and related buttons.

At dusk or in the dark, the dimmer can be adjusted manually.

Brightness is increased or decreased by pressing one of the two buttons.



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