Service Manual

Dumper

1501



Machine model	**1501**
Edition	**1.1**
Language	**English**
Item no.	**1000144667**

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Table of contents

Operation

Important information on this service manual 1-1
Identification of warnings and dangers 1-2
Designated use and exemption from liability 1-3
Type labels and component numbers 1-4
Machine overview 1501 D 1-6
Machine overview 1501 1-7
Machine overview 1501S 1-8
Operating equipment: overview 1-9
Operating equipment: legend 1-10
Maintenance prop, model 1501 1-10
Maintenance prop, model 1501S 1-11
Centre pivot prop, model 1501/1501S 1-12

Specifications

Chassis 2-1
Engine 2-1
- Engine capacities 2-2
- Engine tightening torques 2-2
- Fuel injection pump 2-2

Travelling drive 2-3
Brakes 2-3
Steering system 2-3
Work hydraulics 2-3
Loader unit 2-3
Drive specifications 2-4
Vibration 2-4
Electric system (up to AC000335) 2-5
- Fuse box 2-5
- Relays 2-5

Electric system (from AB150001H/150002D) 2-6
- Fuse box 2-6
- Relays 2-6

Tyres 2-7
Noise levels 2-7
Coolant compound table 2-7
General tightening torques 2-8
- Tightening torques for hydraulic screw connections (dry assembly) 2-8
- Tightening torques for high-resistance screw connections 2-10
- Tightening moments for Nordlock lock washers 2-11

Dimensions model 1501 2-12
Dimensions model 1501S 2-13

Maintenance

Fluids and lubricants 3-3
Maintenance plan (overview) 3-5
Service package 3-8
Introduction 3-8
Fuel system 3-9
- Specific safety instructions 3-9
- Refuelling 3-9
- Stationary fuel pumps 3-10
- Diesel fuel specification 3-10
- Bleeding the fuel system 3-10
- Fuel prefilter with water separator 3-11
- Replacing the fuel filter 3-12

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Engine lubrication system ... 3-13
Checking the oil level ... 3-13
Filling up engine oil ... 3-14
Changing engine oil ... 3-15
Replacing the engine oil filter cartridge ... 3-16
Cooling system ... 3-17
Specific safety instructions ... 3-17
Checking/filling up coolant ... 3-18
Draining coolant ... 3-19
Air filter ... 3-20
Weekly check of air filter contamination ... 3-20
Replacing the filter ... 3-21
V-belt ... 3-22
Checking V-belt tension ... 3-22
Retightening the V-belt ... 3-23
Hydraulic system ... 3-24
Specific safety instructions ... 3-24
Checking the hydraulic oil level ... 3-25
Filling up hydraulic oil ... 3-25
Changing hydraulic oil ... 3-26
Monitoring the hydraulic oil reflux filter ... 3-26
Replacing the hydraulic oil reflux filter ... 3-26
Checking hydraulic pressure lines ... 3-27
Lubrication points 1501: overview ... 3-28
Lubrication points 1501S: overview ... 3-29
Tyre maintenance ... 3-30
Checks once a day ... 3-30
Checks once a week ... 3-30
Changing wheels ... 3-31
Removing the wheels ... 3-31
Fitting the wheels ... 3-31
Electric system ... 3-32
Specific safety instructions ... 3-32
Service and maintenance work at regular intervals ... 3-32
Instructions concerning specific components ... 3-33
Alternator ... 3-33
Battery ... 3-34
Battery master switch ... 3-35
General maintenance work ... 3-36
Cleaning ... 3-36
General instructions for all areas of the machine ... 3-36
Screw connections and attachments ... 3-36
Pivots and hinges ... 3-36

Engine

Engine overview 3TNE74 (up to AC000335) ... 4-2
Fuel system (up to AC000335) ... 4-4
Engine overview 3TNV76-XNSV (from AB100001H) ... 4-5
Fuel system (from AB100001H) ... 4-7
Checking and adjusting valve tip clearance ... 4-8
Tightening order for cylinder head bolts ... 4-9
Checking the injection nozzles ... 4-10
Pressure check ... 4-10
Checking the nozzle jet ... 4-10
Fuel injection time (up to AC000335) ... 4-11
Fuel injection time (from AB100001H) ... 4-12
Adjusting engine revs ... 4-13

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Compression 4-13
Checking the coolant thermostat 4-13
Checking the thermal switch 4-14
Oil pressure switch 4-14
Checking the coolant circuit 4-15
Engine trouble 4-15

Travelling drive
Variable displacement pump A10VG45DA 5-1
Variable displacement pump: diagram 5-3
Variable displacement pump: design 5-4
Travelling drive: overview 5-5
Connecting plate with valves 5-6
Rear hydraulic motor 5-7
Front hydraulic motor 5-8
Hydraulic motor: overview 5-9
Travelling drive: overview 5-11
Towing and transporting the machine 5-12
Safety instructions 5-12
Towing 5-12
Opening the high-pressure circuit 5-12
Releasing the hydraulic parking brake 5-13
Test instruction 5-14
Pilot pressure check 5-14
High pressure check 5-15

Brakes
Brake circuit up to serial no. AC000241 6-1
Brake diagram 6-2
Brake circuit from serial no. AC000242 6-3
Brake diagram 6-4

Steering system
Steering circuit 7-1
Steering unit: diagram 7-2
Function 7-2
Steering unit connections 7-3
Steering unit: overview 7-4
Priority valve: overview 7-4
Priority valve: legend 7-4
Steering unit 7-5
Steering unit: legend 7-6

Hydraulic system
Control valve connections: overview 8-1
Test instructions 8-2
Check: work pump pressure 8-2
1501 diagram up to serial no. AC000241 8-3
1501 diagram up to serial no. AC000241: legend 8-4
1501 diagram from serial no. AB150001H/AB150002D 8-5
1501 diagram from serial no. AB150001H/AB150002D: legend 8-6
1501S diagram up to serial no. AC000241 8-7
1501S diagram up to serial no. AC000241: legend 8-8
1501S diagram from serial no. AC000242 8-9
1501S diagram from serial no. AC000242: legend 8-10
Hydraulics diagram A3 1501 up to serial no. AC000241 8-11
Hydraulics diagram A3 1501 from serial no. AB150001H/AB150002D 8-12
Hydraulics diagram A3 1501S up to serial no. AC000241 8-13
Hydraulics diagram A3 1501S from serial no. AC000242 8-14

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2.17 Dimensions model 1501S

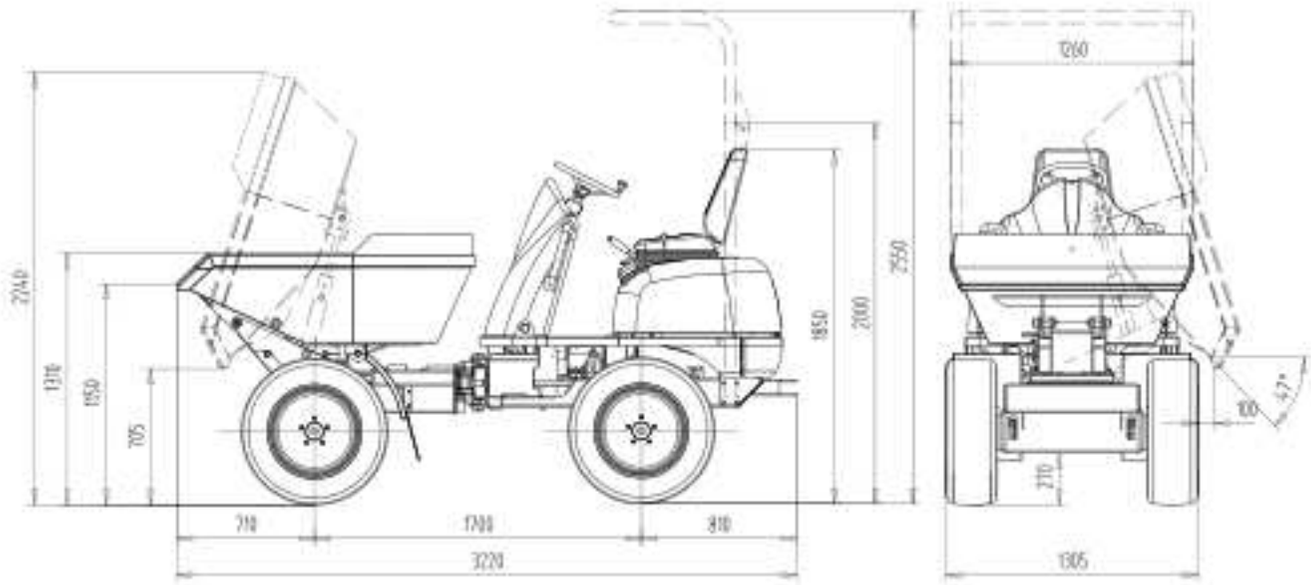


Fig. 8: Machine dimensions (model 1501S)

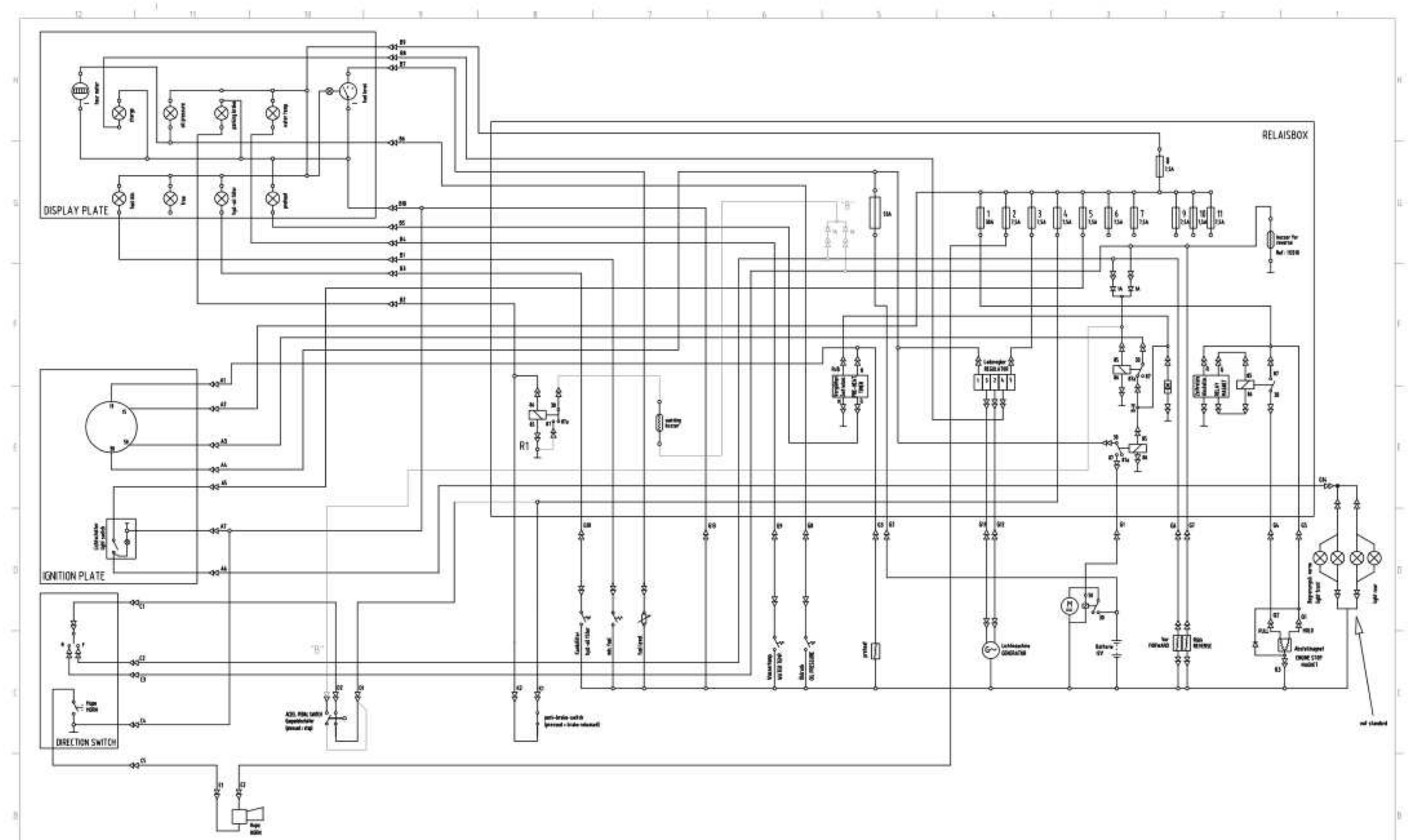
Main data	Model 1501S
Dead weight	1210 kg
Overall height	2550 mm
Overall height with rollbar folded down	2000 mm
Overall height without rollbar	1850 mm
Overall width	1305 mm
Ground clearance	270 mm
Wheelbase	1700 mm
Outside turning radius	3500 mm

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Problem		Possible causes
Engine overheats. Temperature warning system responds		Oil level too low
		Oil level too high
		Dirty air filter
		Dirty oil cooler fins
		Defective fan, torn or loose V-belt
		Resistance in cooling system too high, flow capacity too low
		Defective thermostat
		Defective fuel injector
Insufficient engine output		Oil level too high
		Fuel grade does not comply with specifications
		Dirty air filter
		Defective air filter maintenance switch or gauge
		Wrong valve tip clearance
		Injection line leaks
		Defective fuel injector
Engine does not run on all cylinders		Injection line leaks
		Defective fuel injector
Insufficient or no engine oil pressure		Oil level too low
		Machine inclination too high (max. 15°)
		Wrong SAE grade of engine lubrication oil
Engine oil consumption too high		Oil level too high
		Machine inclination too high (max. 15°)
Engine smoke	Blue	Oil level too high
		Machine inclination too high (max. 20°)
	White	Engine starting temperature too low
		Fuel grade does not comply with specifications
		Wrong valve tip clearance
		Defective fuel injector
		Coolant combustion (defective cylinder-head gasket)
	Black	Dirty air filter
		Defective air filter maintenance switch or gauge
		Wrong valve tip clearance
		Defective fuel injector
		Engine oil combustion (defective cylinder-head gasket)

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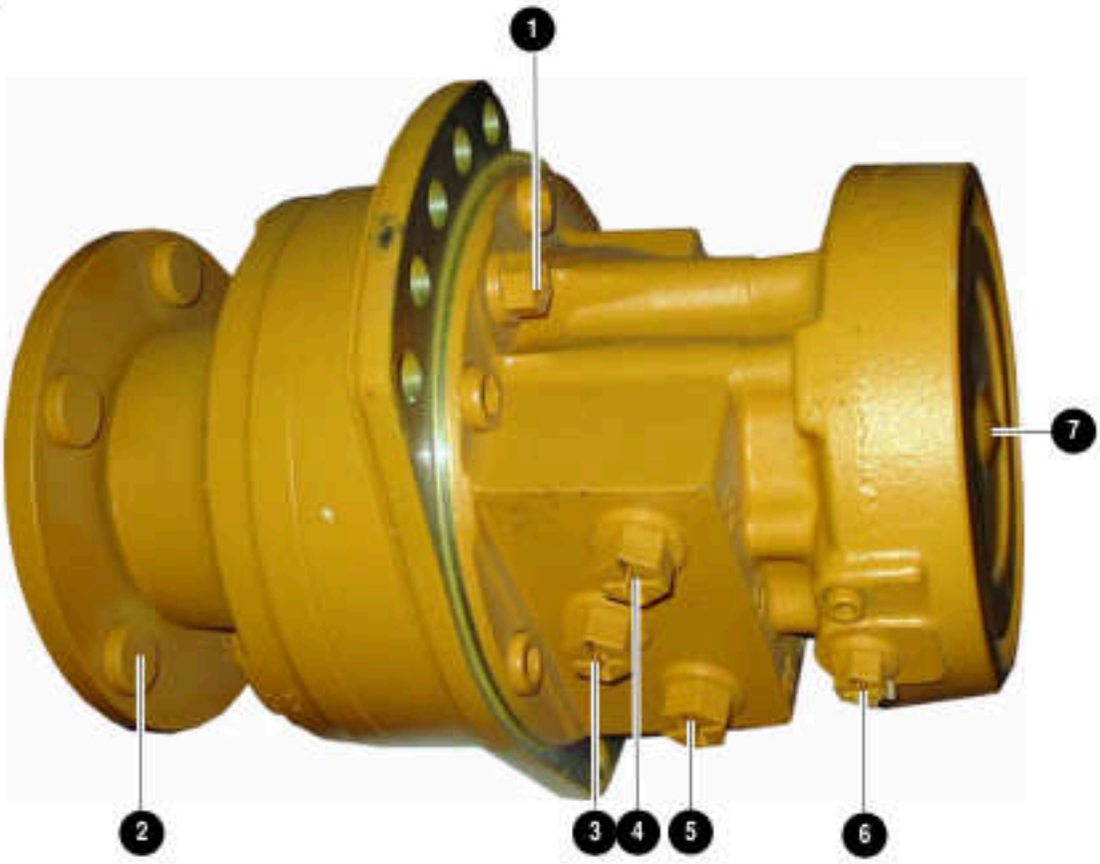
9.24 Wiring diagram A3 from serial no. AB150001H/AB150002D



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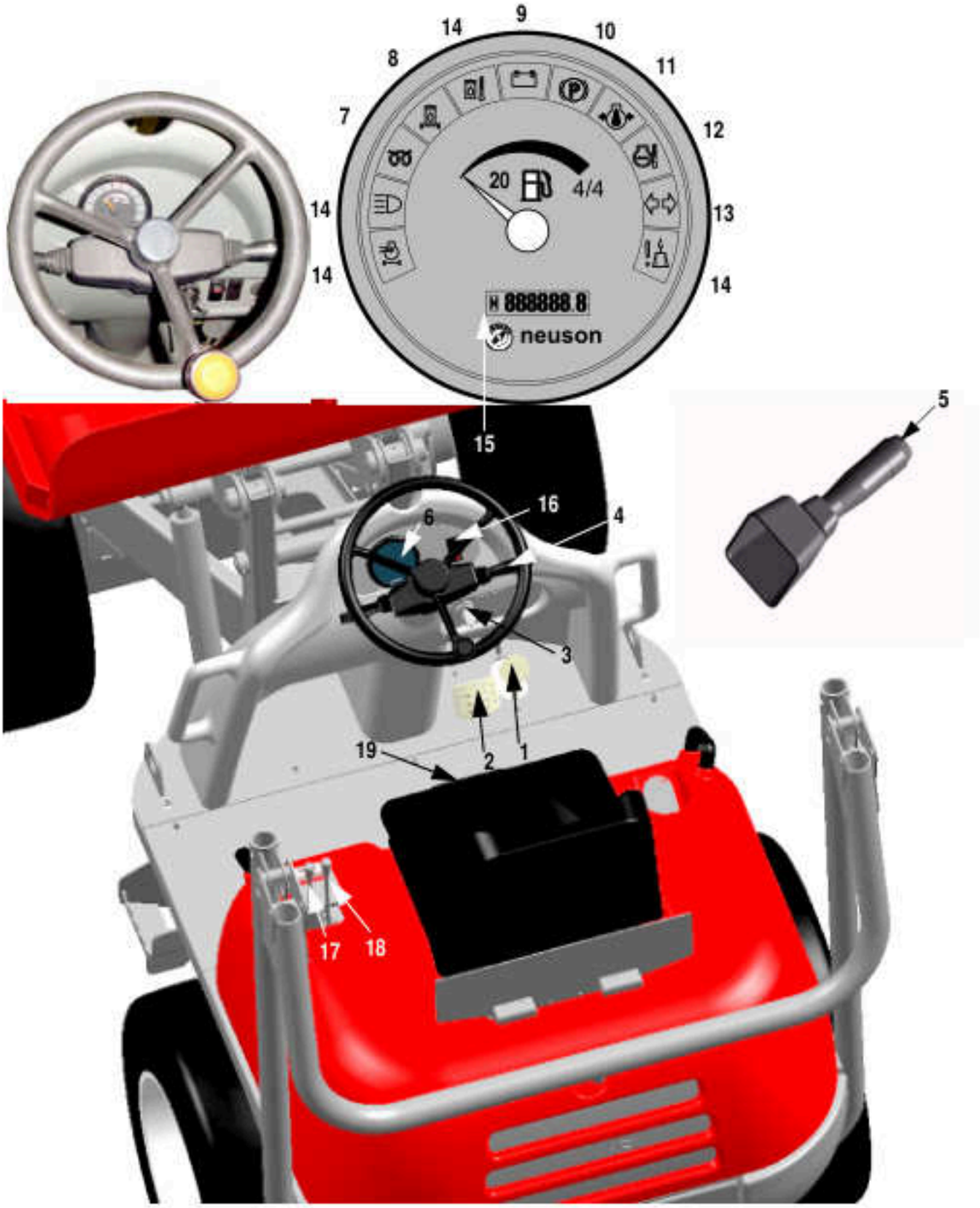
5.2 Rear hydraulic motor



Pos.	Description
1	Leak oil port
2	Wheel screws
3	R forwards high pressure supply
4	A1 front hydraulic motor serial line
5	A2 high pressure reverse supply
6	X parking brake connection
7	Parking brake release M12

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1.8 Operating equipment: overview



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9.25 Main wiring harness from AB150001H/AB150002D: legend

No.	Up to	To	Colour	mm²
2	X1 A 12V/30	F1.1	red	4
3	X1 B 12V/30	F1.1	red	4
4	X1 C 12V/30	F2.1	red	4
5	X1 D 12V/30	F2.1	red	4
6	F1.2 12V/30	S1.1	red	6
7	F1.2 12V/30	F10 H	red	4
8	F2.2 12V/30	K9.30	red	4
9	F2.2 12V/30	K7 A	red	4
10	S1.5 12V/15	F4 B	blu	4
11	S1.6 12V/15	F7 E	blu	4
12	X1 E starter	K7 B	wht/red	2.5
13	X1 F cutoff solenoid pick-up contact	K9.87	wht	4
14	X1 G preheating	S1.3	brn	4
15	S1.8 preheating	S1.4	brn	4
16	S1.9 preheating	K6	brn	1
17	F3.1 12V/15 indicating instrument/relay	X4.5	blu	1
18	X47 12V/15 indicating instrument/relay	X4.5	blu	1
19	X47 12V/15 indicating instrument/relay	X10.1	blu	1
20	X4.9 cutoff solenoid/fuel pump	V1	blu/red	1
21	X1.1 fuel pump	V1	blu/red	1
23	X4.9 timer cutoff solenoid	K8	blu/red	1
24	K7.1 12V/15 starting relay	K8	blu/red	1
25	X1.2 12V/15 indicating instrument/relay	F3.1	blu	1
26	K8 cutoff solenoid relay	K9.86	blu/blk	1
27	K8 cutoff solenoid relay	K9.85	pnk/blk	1
28	X1.9 alternator charge telltale	B14.5	pnk	1
29	X10.8 alternator charge telltale	B14.5	pnk	1
30	X1.10 engine oil pressure	B14.6	wht/grn	1
31	B14.1 engine oil pressure	X10.10	wht/grn	1
32	X1.11 engine temperature	B14.9	blk/grn	1
33	B14.4 engine temperature	X10.14	blk/grn	1
34	X1.12 hydraulic oil filter	X10.6	org/wht	1
35	X1.13 tank sensor	X10.4	vio/blk	1
36	X1.14 revs signal	K7.6	blk/blu	1
37	S1.7 starter	X4.4	wht/blk	1
38	X5.8 starter	X5.4	wht/blk	1
39	X4.8 starter	K6	wht/blk	1
40	K32.30 starter	K6	wht/blk	1
41	K32.87a starter	K7.3	wht/blk	1
42	F4.2 12 V drive	S9	gry	1
43	X7/2.2 12 V drive	S9	gry	1
44	X7/2.2 12 V drive	S11.9	gry	1
45	S9 drive	X4.1	gry/blu	1
46	X5.6 drive	X5.1	gry/blu	1
47	X4.6 drive	X7/2.4	gry/blu	1
48	X7/2.1 forwards driving	V2.1	brn/wht	1
49	X1.17 forwards driving	V2.1	brn/wht	1
50	X7/2.3 reversing light	X8.5	gry/blk	1
51	X7/2.3 reverse driving	V2.2	gry/blk	1

No.	Up to	To	Colour	mm²
52	X1.18 reverse driving	V2.2	gry/blk	1
53	B3 backup warning system	V2.2	gry/blk	1
54	B3 reversing light	H30	gry/blk	1
55	S1.5 12V/15 lights	X7/1.3	blu	1.5
56	X7/1.4 position light	F9 G	yel/blk	1
57	X7/1.4 position light	X10.2	yel/blk	1
58	F9.7 position light	X8.1	yel/blk	1
66	X7/1.2 low beam	K33.86	yel	1
67	X7/1.9 high beam telltale	X10.11	grn	1
68	X7/1.9 high beam	K34.86	grn	1
69	F8.6 low beam	K33.30	yel/red	1
70	K33.87 low beam	X8.3	yel/red	1
72	F7.5 high beam	K34.30	grn/red	1
73	K34.87 high beam	X8.2	grn/red	1
75	F10.6 turn indicators 12V/30	S19.3	red	1
76	F6.4 turn indicators 12V/15	S19.1	blu	1
77	S19.4 turn indicators +	K10+	blu/wht	1
78	S19.5 turn indicators COM	X7/1.5	blu/yel	1
79	S19.5 turn indicators COM	K10 C	blu/yel	1
80	K10 P turn indicator telltale	X10.15	gry/red	1
81	S19.7 turn indicators (right)	X7/1.1	gry/grn	1
82	S19.7 turn indicators (right)	X8.8	gry/grn	1
86	S19.6 turn indicators (left)	X7/1.6	gry/yel	1
87	S19.6 turn indicators (left)	X8.7	gry/yel	1
91	F5.3 12V brakes/horn	S9	org/blk	1
92	B2 12V brakes/horn	S9	org/blk	1
93	F5.3 12V brakes/horn	K30.30	org/blk	1
94	K30.87 parking brake	S11.1	blk/red	1
95	S11/1 parking brake	S11.5	blk/red	1
96	S11/1 parking brake	Y36.1	blk/red	1
97	S9 brake lights	X8.6	red/blk	1
100	X10.9 parking brake telltale	S10	red/wht	1
101	K6 preheating telltale	X10/12	gry/red	1
102	V2.3 start interlock	K32.86	wht/red	1
103	V2.3 start interlock	K30.86	wht/red	1
104	F7.5 rotating beacon	H28	vio	1
105	X7/1.7 horn	B2	org	1
106	S19.3 12V drive interlock	X4.3	red	1
107	X5.9 12V cutoff solenoid/feed pump	X5.5	blu	1
108	K7.5 earth	K8	blk	1
109	K6 earth	K6	blk	1
110	K6 earth	V1	blk	1
111	K34.85 earth	V1	blk	1
112	K34.85 earth	K33.85	blk	1
113	K32.85 earth	K33.85	blk	1
114	K32.85 earth	K10.31	blk	1
115	K30.85 earth	K10.31	blk	1
116	K30.85 earth	GND	blk	1
117	Y36.2 earth	GND	blk	1

No.	Up to	To	Colour	mm²
118	S10 earth	GND	blk	1
119	GND earth	X9.4	blk	1.5
120	H28.2 earth	B3	blk	1
121	H30 earth	B3	blk	1
122	H30 earth	GND	blk	1
123	X10.5 earth	X7/1.8	blk	1
124	S11.10 earth	X7/1.8	blk	1
125	S11.10 earth	X4.3	blk	1
126	GND earth	X4.3	blk	1
127	X1 K earth	GND	blk	2.5

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