4.00.02 Maintenance overview

For engine maintenance see operating manual for diesel engine ( )!

Lubricating oil change intervals

These intervals depend, e.g., on:

- Lubricating oil quality
- Fuel sulphur content
- The mode in which the diesel engine is used

Change lubricating oil after half the interval indicated, e.g., when at least one of the following conditions is true:

- Continuous ambient temperature below –10 °C (14 °F) or lubricating oil temperature below 60 °C (84 °F).
- Operation using biodiesel fuel

Change the lubricating oil at least once per year if the lubricating oil change intervals are not reached before the year ends.

804-01

Every 10 operating hours 10 h

	Checking the function of the parking brake	see page 18
	Inspecting the EMERGENCY STOP function when engine at standstill	see page 19
	Checking hydraulic oil level	see page 35
	Checking the air pressure in the tyres	see page 42
	Checking engine oil level	
	Checking coolant level	see page 33
	Checking and cleaning air filter / dust valve	see page 29 / see page 28

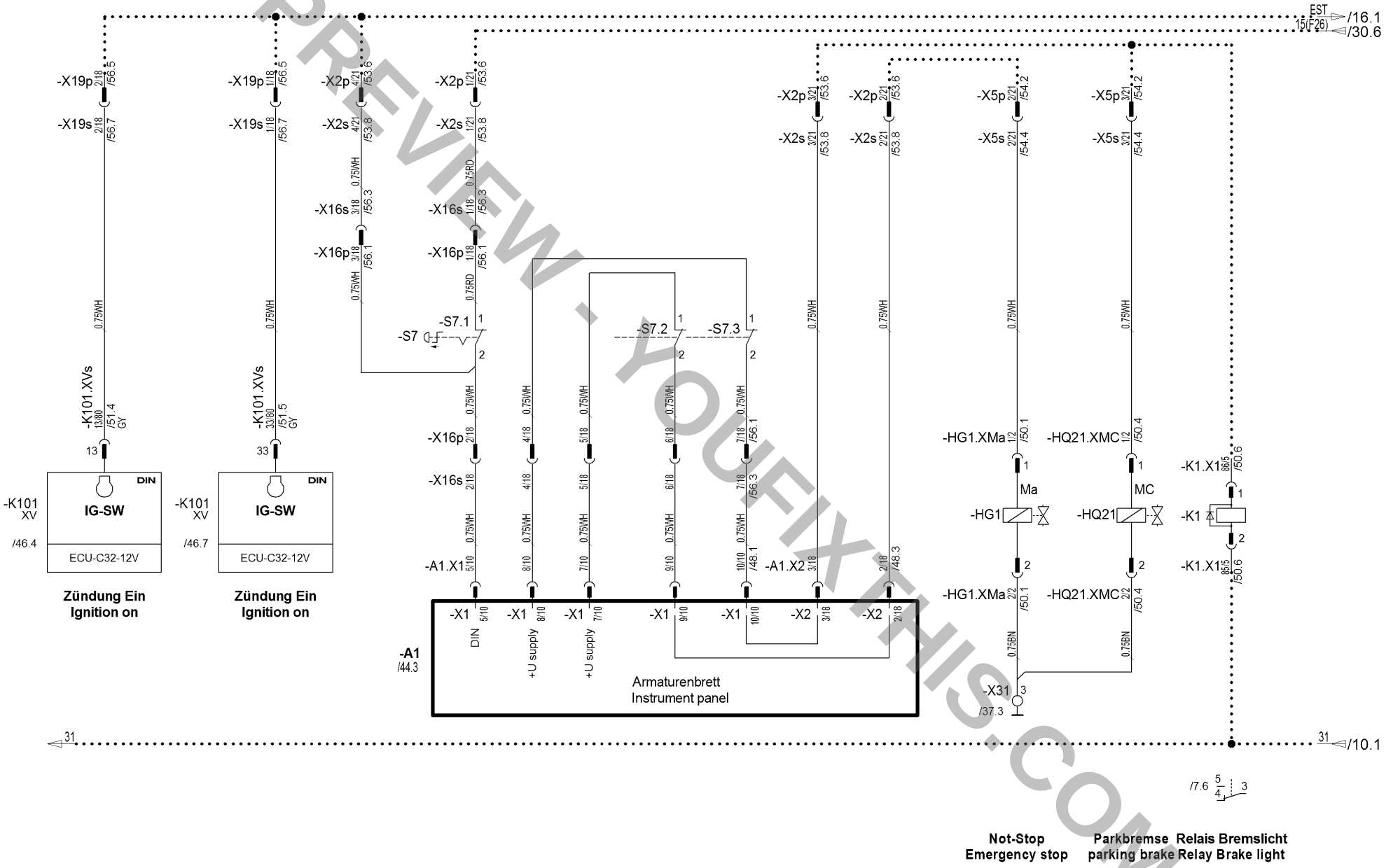
Every 250 operating hours 250 h

	Check scrapers	see page 40 see page 40
	Checking vibrator oil filling level	see page 46
	Checking V-belt tension	
	✻Checking V-belt tension of air conditioning	see page 21
	Lubricating pivoted bearing	see page 44
	Lubricate the steering cylinder bolts	see page 45
	Check the radiator	see page 32
	✻Checking air conditioning system	see page 21

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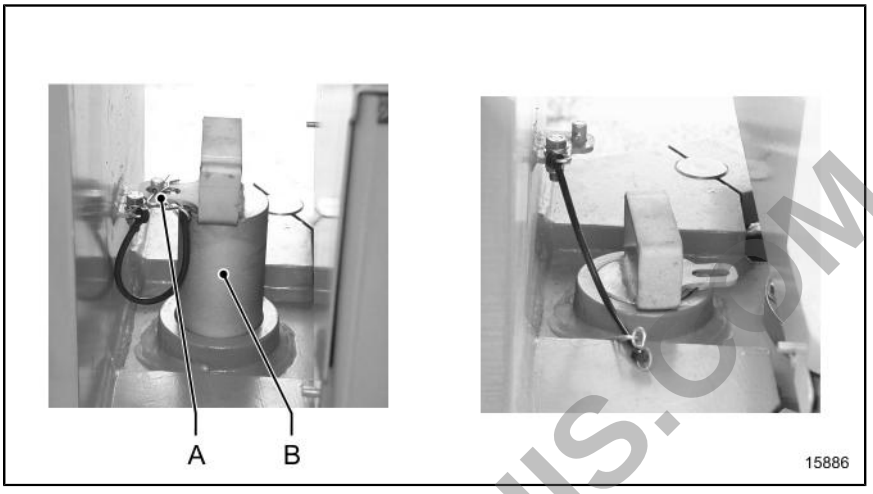
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date 04.06.2014	date	date	AE = changable		Series code: H222	Valid for Serial No.: from 0000 to		
name Lan.	name	name	PF = prototype release	Partial Document No.:	Sheet plant:	Sheet Location:		
E - CAE	Document type: ESP	Function group No.: 01	SF = serial release	Version No.:				

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4.00.06 Safety strut

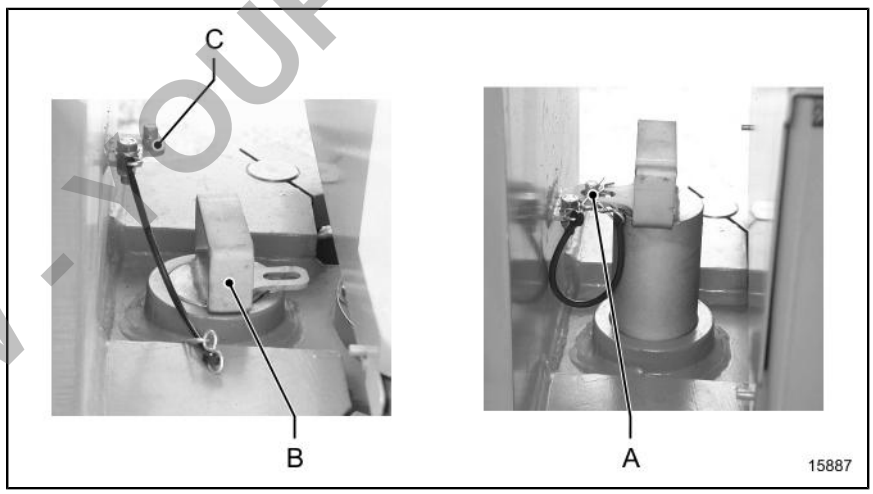
Applying safety strut



1. Align articulated joint for travelling straight ahead (no steering angle).
2. Remove the bolt retainer [A].
3. Lift the locking pin [B], turn it through 180°, and lock the articulated joint.

800-13

Releasing safety strut



1. Lift the locking pin [B], turn it through 180°, and hook it into bracket [C].
2. Mount the bolt retainer [A].

800-14

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5.01 Technical data

The version valid at the time the technical data was prepared for this version of the manual was used (see impressum: change date). Other values may apply if modifications are made to the machine in the course of its further development.

000-30

5.01.01 H 5i

Designation	Value	Unit
Dimensions and weights		
Basic weight without cab	4580	kg
Operating weight with cabin	5035	kg
Axle load front / rear	2625 / 2410	kg
Working width	1370	mm
Turning radius inside / outside	3375 / 4745	mm
Diesel engine		
Manufacturer	Kubota	
Type	V3307-CR-T	
Number of cylinders	4	
Power (ISO 14396) / rated speed	54.6 / 2200	kW / rpm
Emission level EU / USA	III B / Tier 4	
Drive		
Working gear speed	0-7.0 / (0-4.3)	km/h / (mph)
Transport speed	0-14.0 / (0-8.7)	km/h / (mph)
Climbing ability, vibration on / off	55 / 60	%
Max. longitudinal gradient allowed	20	°
Max. transverse gradient allowed	20	°
Tyres		
Number of tyres	2	items
Tyre size • Air pressure • Total weight per tyre	TR 12.4-24 8 PR 0.15 / (1.5) / [21.75] 85	 MPa / (bar) / [psi] kg
Tyre size • Air pressure • Total weight per tyre	12.5-20 12 PR 0.35 / (3.5) / [50.75] 95	 MPa / (bar) / [psi] kg
Tightening torque, wheel nut	450	

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Starting torques for regular type screw threads

Threads	Starting torques MA (Nm)		
	8.8	**10.9**	**12.9**
M4	2,7	4,0	4,7
M5	5,5	8,1	9,5
M6	9,5	14	16,5
M8	23	34	40
M10	46	68	79
M12	79	117	135
M14	125	185	215
M16	195	280	330
M18	280	390	460
M20	390	560	650
M22	530	750	880
M24	670	960	1120
M27	1000	1400	1650
M30	1350	1900	2250

Starting torques for fine threads

Threads	Starting torques MA (Nm)		
	8.8	**10.9**	**12.9**
M8x1	24,5	36	43
M10x1.25	49	72	84
M12x1.25	87	125	150
M12x1.5	83	122	145
M14x1.5	135	200	235
M16x1.5	205	300	360
M18x1.5	310	440	520
M20x1.5	430	620	720
M22x1.5	580	820	960
M24x2	730	1040	1220
M27x2	1070	1500	1800
M30x2	1490	2120	2480

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4.00.04 Required maintenance parts

H 5i, all types (V3307-CR-T)

H2220001 →

Quantity	Maintenance part			first time after 50	Servicing intervals in operating hours			
					every 250	every 500	every 1000	every 2000
10.5 l	Engine oil	□		50 D		D		
38.0 l	Hydraulic oil	▭						D
11.0 l	Coolant	○						D
5.2 l	Vibrator oil	◇			A		D	
1	V-belt	Generator	2428657		A	D		
1	∗V-belt	Air conditioning system	1225812		A	D		
1	Air filter cartridge		2051604		A	D		
1	Safety cartridge		2051606					D
1	Filter cartridge	Lubricating oil	2373069	50 D		D		
1	Filter cartridge	Fuel	2275738			D		
1	Filter cartridge	fuel prefilter	2367788			D		
1	Filter insert	Oil separator	2428712				D	
1	Seal	Valve cover	2428661				D	
1	Filter insert	Hydraulic system	1296396			D		
1	Filter insert	Steering	1296396			D		
1	Ventilation filter	Oil tank	2247029					D
1	Filter insert	water filter	2033909		A			
1	∗Dryer	Air conditioning system	2429591					D
1	∗Filter insert, air conditioning	Recirculating air	2429338			D		
1	Filter insert, operator's cabin	Fresh air	2429589			D		
10	Damping elements for the drum suspension		1487116			A		
A = check, replace if necessary, D = replace								
1	All required maintenance parts for the corresponding maintenance intervals			2373069		2428761	2428764	2428766

All necessary maintenance parts for the corresponding maintenance interval are assembled in a service kit. You find the current order numbers for individual service kits in the WIRTGEN GROUP document Parts and more.

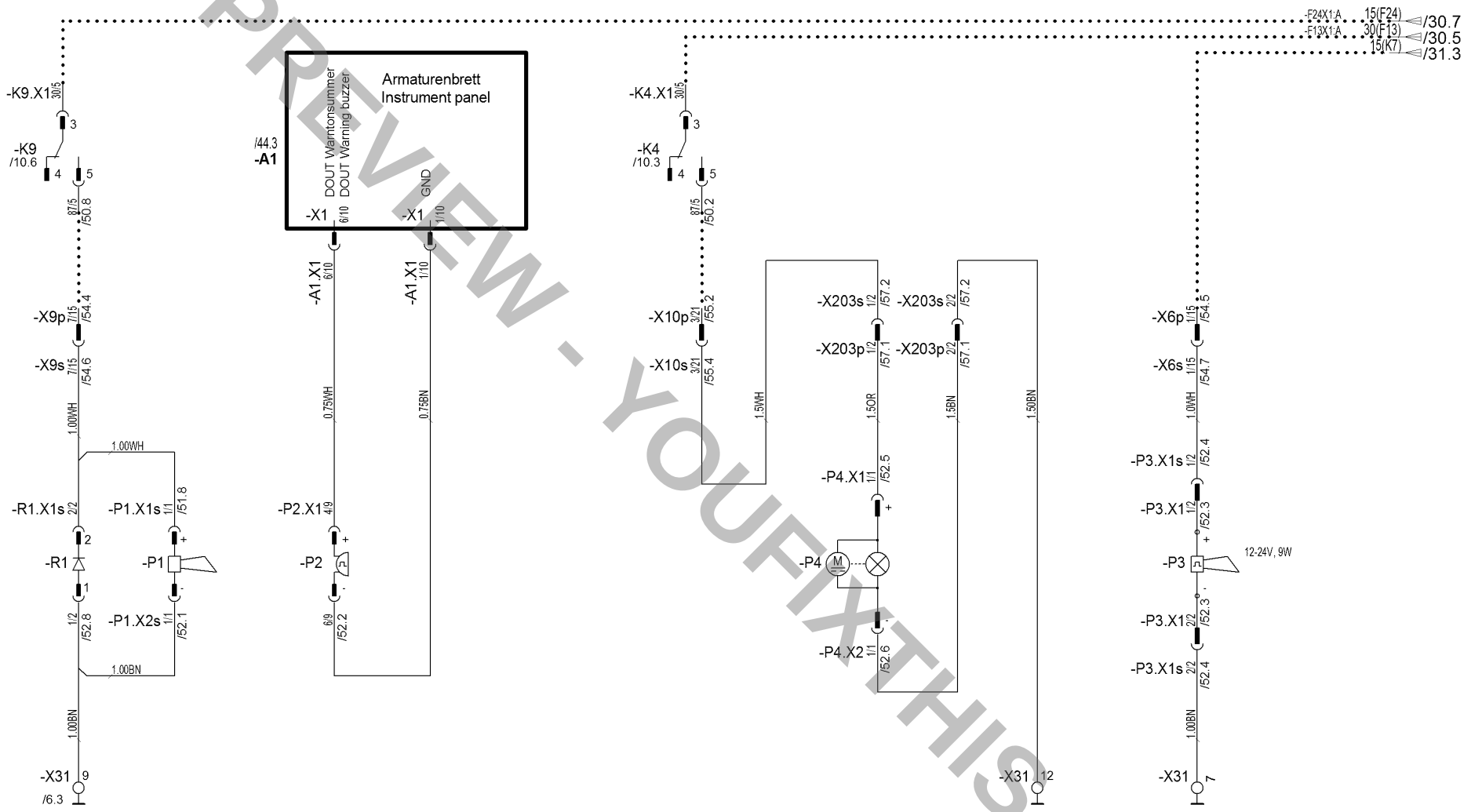
Maintenance parts marked as options (∗) are not included in the service kit.

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Signalhorn
Signal horn

Warntonsummer
Warning buzzer

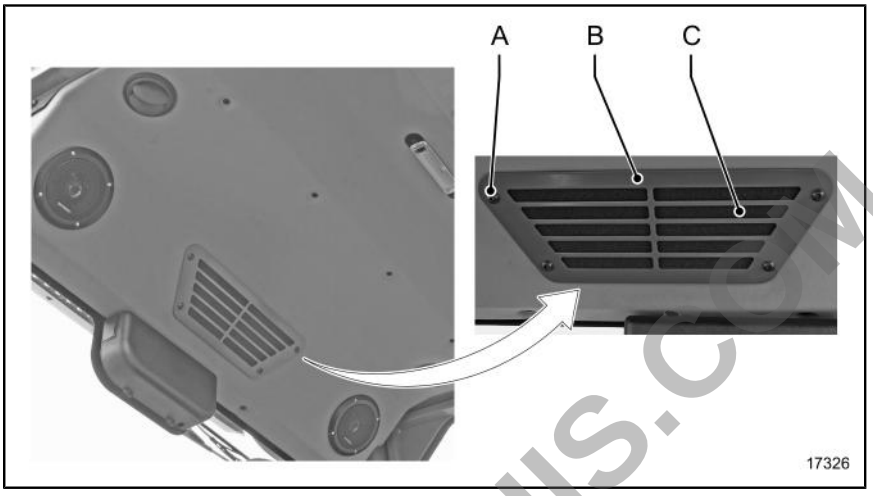
Rundumkennleuchte
Rotating-beam light

Rückfahrwarneinrichtung
Back-up alarm

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date 04.06.2014	date	date	AE = changable			Series code: H222	Valid for Serial No.: from 0000 to		
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4.02.02 *Replacing circulating air filter of the air conditioning system

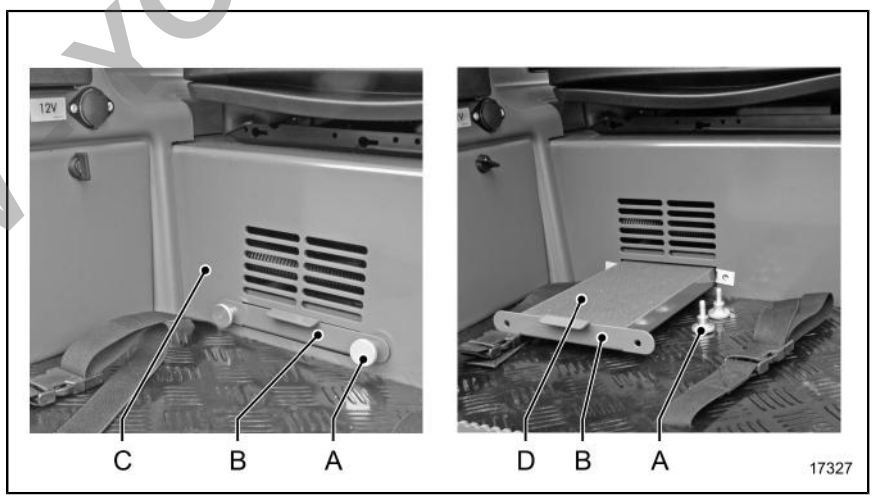


Replace the filter depending on the dusty conditions.

1. Switch off diesel engine and remove ignition key.
2. Loosen screws [A] and remove with the cover [B] and remove the filter element [C].
3. Replace the filter element [C] by a new one.
4. Mount cover [B] with the filter element [C] and tighten screws [A].

887-04

4.02.03 Replacing fresh air filter of the operator's cabin



Replace the filter depending on the dusty conditions.

1. Switch off diesel engine and remove ignition key.
2. Loosen the screws [A].
3. Pull the filter unit [B] from the vented enclosure.
4. Replace the dust filter [D].
5. Slide the filter unit [B] into the vented enclosure [C].
6. Install and tighten the screws [A].

887-06

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Designation	Value	Unit
Vibration		
Vibration	front	
Frequency / speed	30 / 1800	Hz / rpm
Maximum amplitude	1.55	mm
Steering		
Steering angle to both sides	31	°
Pendulum compensation upwards and downwards	10	°
Filling quantities		
Fuel	123.0	l
Engine oil (for oil change)	10.5	l
Coolant of diesel engine	11.0	l
Hydraulic oil	60.0	l
Vibrator	5.2	l
∗Air conditioning (R134a)	1.6	kg
Noise data		
Guaranteed sound power level L_{WA}	106	dB(A)
Measured noise level at operator platform with ROPS cabin	83	dB(A)
Measured noise level at operator platform with ROPS roll-over bar	87	dB(A)
Electrical system		
Operating voltage	12	V

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6 ASSEMBLY INSTRUCTIONS AND AUXILIARY DEVICES

When working at the machine please always adhere to the instructions given in your Safety instructions!

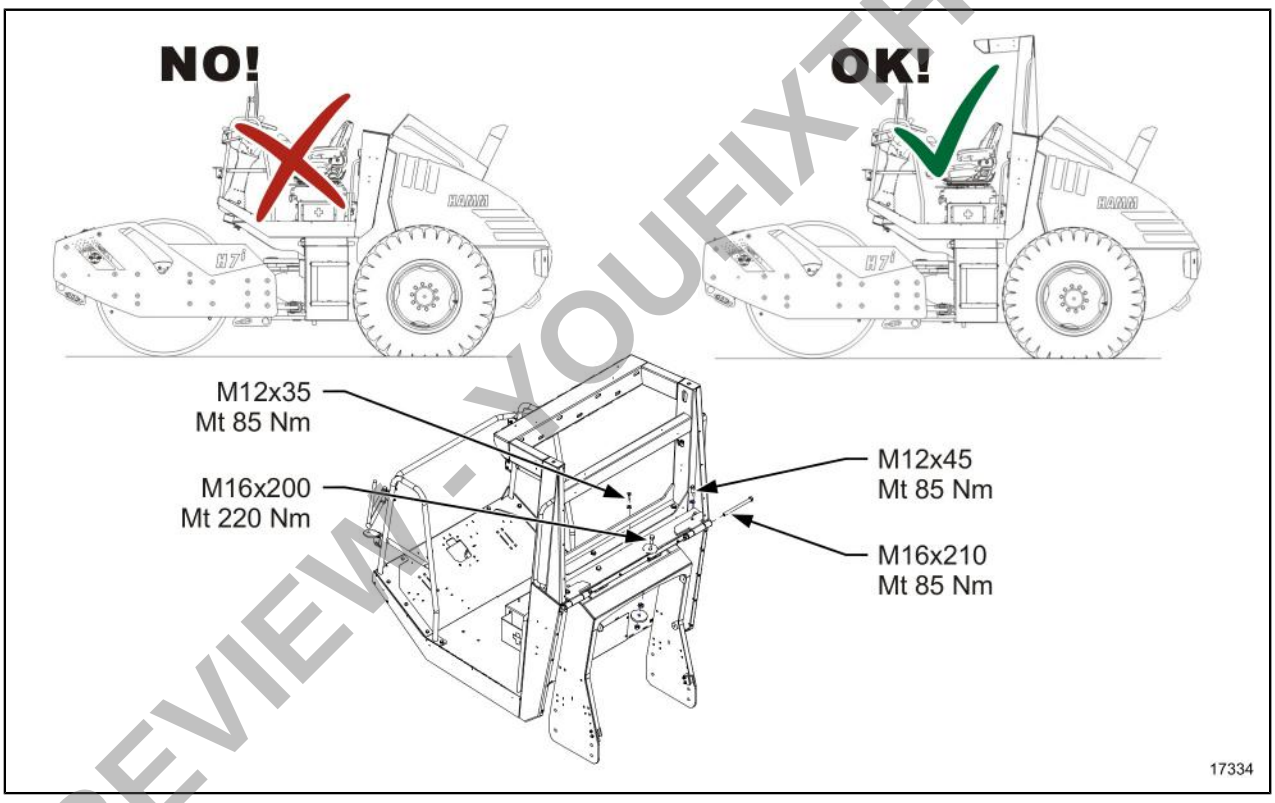
000-01

Please also consider the parts included in the scope of supply. They may be different from the parts list content indicated here due to further developments in the product.

000-23

6.00 Instructions for installation and retrofitting

6.00.01 Safety device ROPS roll-over bar



General The ROPS roll-over bar is a safety device in the case the machine tilts or rolls over. It avoids that the driver is crushed to death based on the high self-weight of the machine. In case the ROPS roll-over bar was dismounted (from the machine) due to transport or repair reasons, the ROPS roll-over bar needs to be remounted according to instructions prior to operating the machine again.

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H 7i, all types (V3307-CR-T)

H2220001 →

Quantity	Maintenance part			first time after 50	Servicing intervals in operating hours			
					every 250	every 500	every 1000	every 2000
10.5 l	Engine oil	□		50 D		D		
38.0 l	Hydraulic oil	▭						D
11.0 l	Coolant	○						D
10.0 l	Vibrator oil (at drum with only vibration)	◇			A		D	
1	V-belt	Generator	2428657		A	D		
1	∗V-belt	Air conditioning system	1225812		A	D		
1	Air filter cartridge		2051604		A	D		
1	Safety cartridge		2051606					D
1	Filter cartridge	Lubricating oil	2373069	50 D		D		
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1	Filter cartridge	fuel prefilter	2367788			D		
1	Filter insert	Oil separator	2428712				D	
1	Seal	Valve cover	2428661				D	
1	Filter insert	Hydraulic system	1296396			D		
1	Filter insert	Steering	1296396			D		
1	Ventilation filter	Oil tank	2247029					D
1	Filter insert	Water filter	2033909		A			
1	∗Dryer	Air conditioning system	2429591					D
1	∗Filter insert, air conditioning	Recirculating air	2429338			D		
1	Filter insert, operator's cabin	Fresh air	2429589			D		
12	Damping elements for the drum suspension		1487116			A		
2	Toothed belt	VIO-drive	359645					D
A = check, replace if necessary, D = replace								
1	All required maintenance parts for the corresponding maintenance intervals			2373069		2428761	2428764	2428766

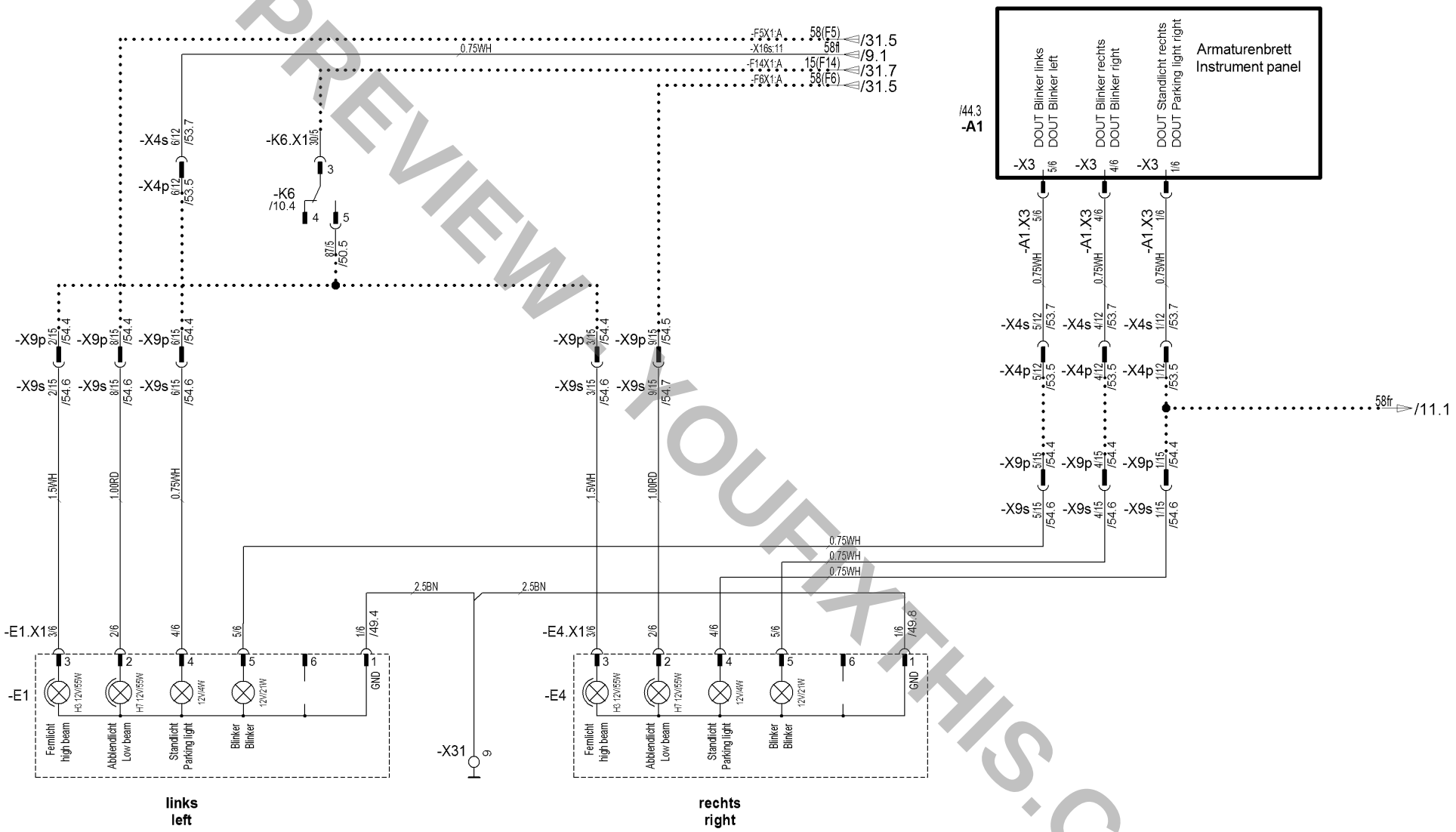
All necessary maintenance parts for the corresponding maintenance interval are assembled in a service kit. You find the current order numbers for individual service kits in the WIRTGEN GROUP document Parts and more.

Maintenance parts marked as options (∗) are not included in the service kit.

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date 04.06.2014	date	date	AE = changable	Partial Document No.:	Series code: H222	Valid for Serial No.: from 0000 to		
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