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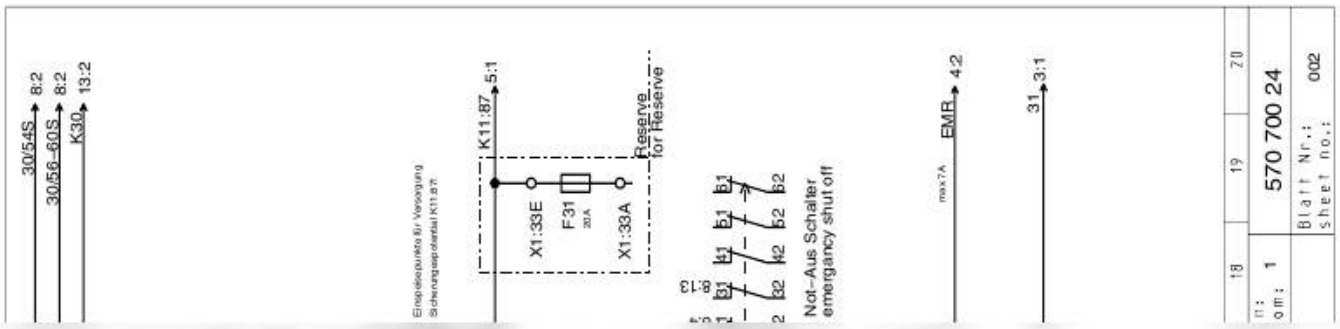
3.5 Maintenance chart

With all maintenance intervals perform also the work for shorter preceding service intervals.

No.	Designation	Note
Every 10 operating hours		
5.6	Check the engine oil level	
5.7	Check the fuel level	
5.8	Check the hydraulic oil level	
5.9	Visual inspection of the machine for damage and leaks	
5.10	Check the coolant level	
5.11	Check the oil level in the splitter gear	
5.12	Check/empty the fuel pre-cleaner (water separator)	
5.13	Lubricate joints and bearings on the bucket	
Every 500 operating hours		
5.14	Service the air conditioning	summer operation
5.15	Check the fastening of the scrapers	628 Nm (463 ft lb)
5.16	Change the engine oil	min. 1x per year at a fuel consumtion of >50l/h the oil change must be performed every 250 operating hours
5.17	Change the engine oil filter	
5.18	Check the engine mounts	
5.19	Check condition of radiator, intercooler and hydraulic oil cooler, clean, clean the engine	
5.20	Check the oil level in the planetary gears	
5.21	Check the battery condition, greasing the poles	
5.22	Check the central lubrication system, topping up	
5.23	Check condition and tension of generator V-belt, replace the V-belt	
5.24	Check the V-belt for refrigerant compressor, tighten, if necessary replace the V-belt	
5.25	Check the fan V-belt, tighten, replace if necessary	replace every 2 years or 6000 operating hours
5.26	Replace the fresh air and circulation air filters	
5.27	Check the anti-freeze concentration	
Every 1000 operating hours		
5.28	Oil change in planetary gear	
5.29	Check, adjust the valve clearance	Inlet valve 0.25 mm (0.009 inch) exhaust valve 0.3 mm (0.012 inch)
5.30	Change the fuel filter cartridge	replace also before winter operation
5.31	Change the fuel prefilter element	
5.32	Check fastening of engine / turbocharger / combustion air hoses	
5.33	Replace the fuel filter for the cabin heater (diesel)	
5.34	Check, clean oil bath air filter for cabin heater (diesel)	
5.35	Change the hydraulic oil fine filter	
Every 2000 operating hours		
5.36	Changing the hydraulic oil	at least every 2 years, only quality stage HV 46 VI150

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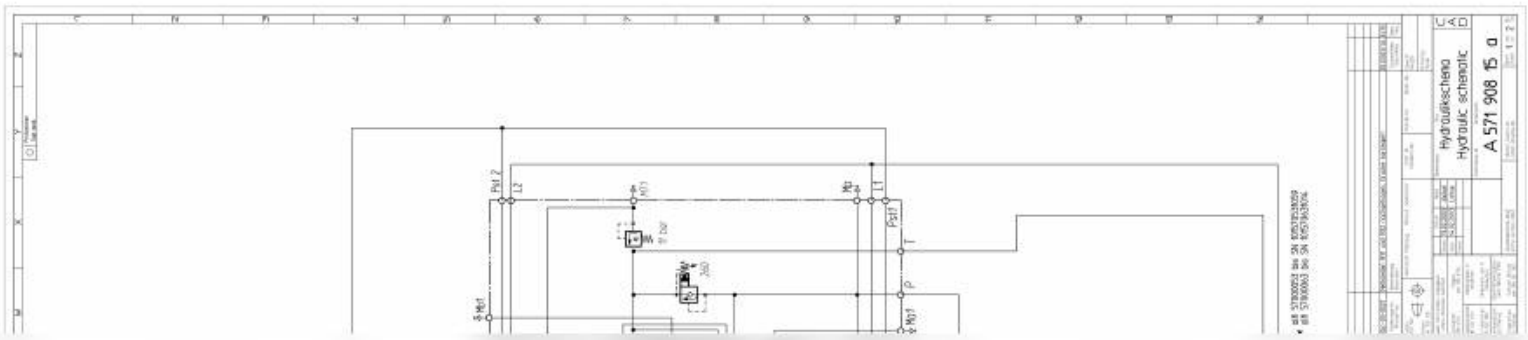
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11 Fault codes of the ESX control

11.1 Overview

Fault code	Fault description
00I - 199	Fault in travel system
200 - 299	Fault in steering system
300 - 499	Fault in working hydraulics
500 - 509	Warning messages input codes
510 - 549	Fault diesel engine
560 - 562	Fault sensor voltage supply / override relays
570 - 599	Fault hydraulic system
800 - 899	Fault message „severe software fault"
900 - 919	Error message "Communication via CAN bus disturbed"
920 - 999	Fault message "Severe internal fault in control"

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17.1 Removing and installing live ring, oscillating articulated joint

Disassembling the live ring

⚠ Danger

Safely support front and rear frames as well as oscillating articulated joint.
Danger of squashing!

1. Remove the front cover 1 (Fig. 1), remove the rear cover

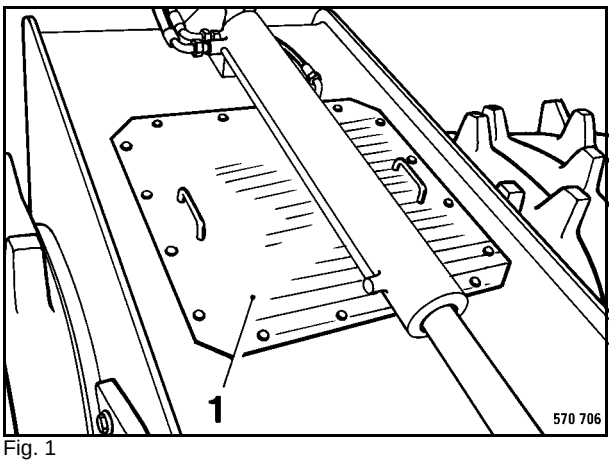


Fig. 1

2. Disassemble the cover 1(Fig. 2) from above the hoses.

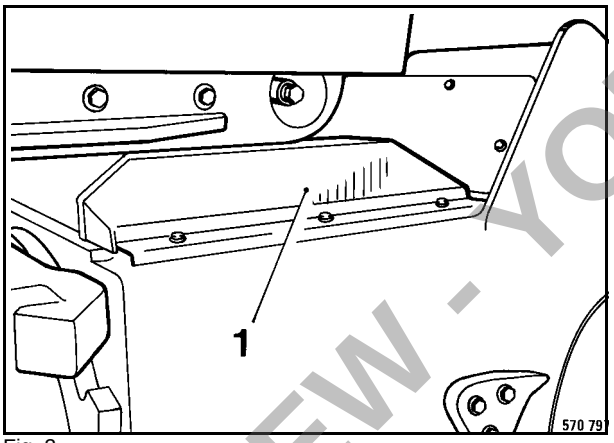


Fig. 2

3. Remove cover 1 (Fig. 3) from the front frame.

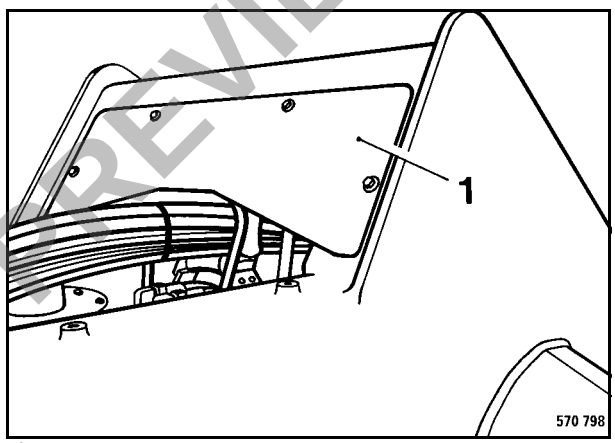


Fig. 3

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3. Teileliste • *3. Parts List*

01.02.2008 Teileliste / Parts List

Matnr./Material No : 16218391
Auftrag/Order :
Produkt/Product : GFT 110 R3 9279 i=83,0 KDN-K
Zeichnungs-Nr./Drawing No : 0 6158/1279 3

Menge Quantity	Pos. Item	Benennung Designation
1,000	001	Tragachse GFT 110 R3 9279 Spindle
1,000	002	Stuetzring GFT 110 R3 9279 Supporting ring
1,000	003	Mitnehmer GFT 110 Coupler
1,000	004	Planetensteg 1wg GFT 110 Planet carrier
1,000	005	Lagerring * GFT 80/110 Bearing ring
3,000	006	Sicherungsring 135x4 Snap ring DIN 472
1,000	007	Verschlussstopfen KAS00119 (D=180) Cap plug
1,000	008	Sprengring SP 150 Snap ring DIN 5417
1,000	010	Zwischenring GFT 102 R2** Spacer ring
5,000	011	Planetenrad GFT 110 Planet gear
10,000	012	Zylinderrollenlager RSL 183013 Cylindrical roller bearing DIN 5412
10,000	013	Anlaufscheibe F 91809 Locating ring
5,000	014	Sicherungsring 95x3 Snap ring DIN 472
1,000	015	Gleitringdichtung 265x293x38 A Face seal 76.97H-26NB60

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Important notes

These safety regulations must be read and applied by every person involved in the repair of this machine. The applicable accident prevention instructions and the safety regulations in the operating and maintenance instructions must be additionally observed.

Repair work shall only performed by appropriately trained personnel or by the after sales service of BOMAG.

Any suggestions, safety precautions and warnings in this section are intended as a mnemonic aid for well trained and experienced expert mechanics. This manual should not be considered a bible on workshop safety.

Workshop equipment and facilities as well as the use and waste disposal of solvent, fluids, gases and chemicals are subject to legal regulations, which are intended to provide a minimum on safety. It is obviously your own responsibility to know and adhere to these regulations.

This manual contain headers like "Note", "Attention", "Danger" and "Environment", which must be strictly complied with in order to avoid dangers for health and for the environment.

⚠ Danger

Paragraphs marked like this highlight possible dangers for persons.

⚠ Caution

Paragraphs marked like this highlight possible dangers for machines or parts of the machine.

i Note

Paragraphs marked like this contain technical information for the optimal economical use of the machine.

Environment

Paragraphs marked like this point out practices for safe and environmental disposal of fuels and lubricants as well as replacement parts.

Observe the regulations for the protection of the environment.

General

- Before starting repair work stand the machine on level and solid ground.
- Always secure the machine against unintended rolling.
- Secure the engine reliably against unintentional starting.
- Mark a machine that is defective or being repaired by attaching a clearly visible warning tag to the steering wheel.
- On machines with articulated joint keep the articulated joint locked during work.
- Use protective clothes like hard hat, safety boots and gloves.
- Keep unauthorized persons away from the machine during repair work.
- Tools, lifting gear, lifting tackle, supports and other auxiliary equipment must be fully functional and in safe condition.
- Use only safe and approved lifting gear of sifficient load bearing capacity to remove and install parts or components from and to the machine.
- Be careful with cleansing agents. Do not use easily inflammable or harmful substances, such as gasoline or paint thinners for cleaning.
- Cleaning or repair work on the fuel tank is very dangerous. Do not smoke or allow any ignitable sparks or open fire in the vicinity when cleaning or repairing a tank. .
- When performing welding work strictly comply with the respective welding instructions.

Precautions and codes of conduct for welding work

Welding work should only be performed by specially instructed expert personnel.

⚠ Danger

Electric shock!

Sparks, fire hazard, burning of skin!

Infrared or ultraviolet radiation (arc), flashing of eyes!

Health hazard caused by welding work on highly alloyed work pieces, metal coatings, paint coatings, plastic coatings, oil containing dirt deposits, grease or solvent residues, etc.!

- Check welding equipment and cables for damage before use (also the validity of inspection stickers).
- Ensure good conductivity between earth cable and work piece.
- Start the extraction fan before starting work and guide with the progressing work as required.
- Always isolate the burner when laying it down (remove possible electrode residues).
- Protect cables from being damaged, use cables with insulated couplings.
- Ensure sufficient fire protection, keep a fire extinguisher at hand.

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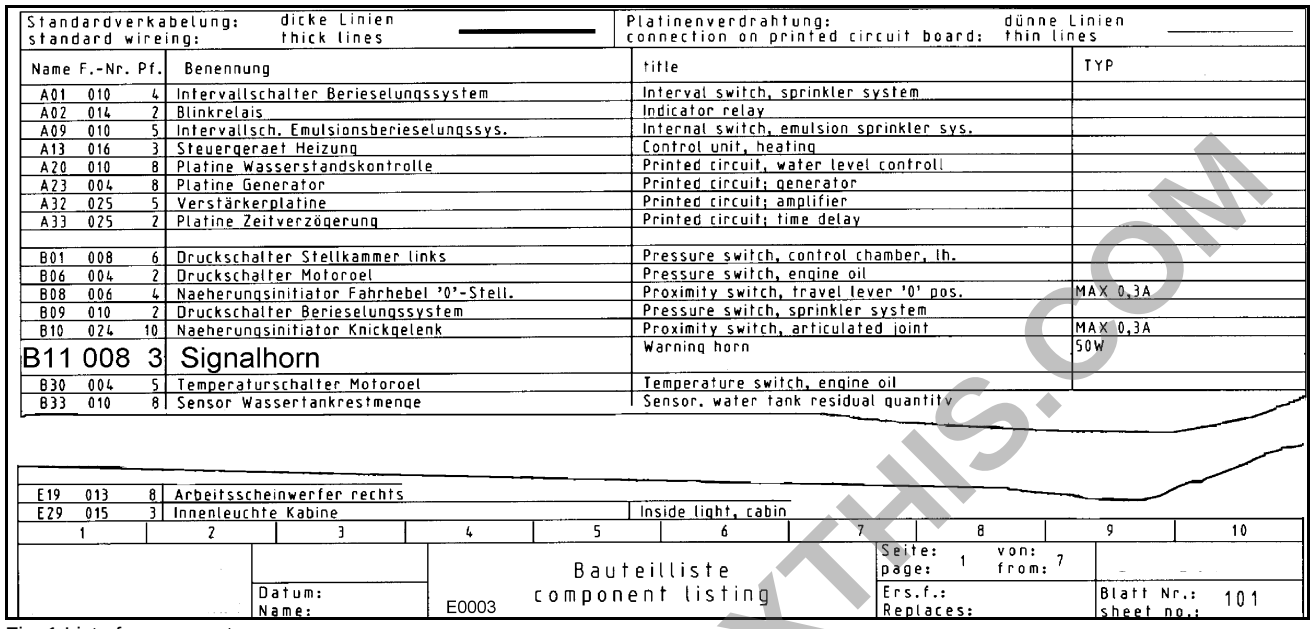
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List of components

Here you find all components used in alphabetical order, related to the name of the component (A01, A02....).



Standardverkabelung: dicke Linien / standard wireing: thick lines				Platinenverdrahtung: dünne Linien / connection on printed circuit board: thin lines	
Name	F.-Nr.	Pf.	Benennung	title	TYP
A01	010	4	Intervallschalter Berieselungssystem	Interval switch, sprinkler system	
A02	014	2	Blinkrelais	Indicator relay	
A09	010	5	Intervallsch. Emulsionsberieselungssys.	Internal switch, emulsion sprinkler sys.	
A13	016	3	Steuergeraet Heizung	Control unit, heating	
A20	010	8	Platine Wasserstandskontrolle	Printed circuit, water level controll	
A23	004	8	Platine Generator	Printed circuit; generator	
A32	025	5	Verstärkerplatine	Printed circuit; amplifier	
A33	025	2	Platine Zeitverzögerung	Printed circuit; time delay	
B01	008	6	Druckschalter Stellkammer links	Pressure switch, control chamber, lh.	
B06	004	2	Druckschalter Motoroel	Pressure switch, engine oil	
B08	006	4	Naeherungsinitiator Fahrhebel '0'-Stell.	Proximity switch, travel lever '0' pos.	MAX 0,3A
B09	010	2	Druckschalter Berieselungssystem	Pressure switch, sprinkler system	
B10	024	10	Naeherungsinitiator Knickgelenk	Proximity switch, articulated joint	MAX 0,3A
B11	008	3	Signalhorn	Warning horn	50W
B30	004	5	Temperaturschalter Motoroel	Temperature switch, engine oil	
B33	010	8	Sensor Wassertankrestmenge	Sensor, water tank residual quantity	
E19	013	8	Arbeitsscheinwerfer rechts		
E29	015	3	Innenleuchte Kabine	Inside light, cabin	

1	2	3	4	5	6	7	8	9	10
	Datum: Name:		Bauteilliste component listing E0003				Seite: page: 1 von: from: 7		
							Ers.f.: Replaces:	Blatt Nr.: sheet no.: 101	

Fig. 1 List of components

Component cross references

Example:

The warning horn "B 11" is located on page no. 8 in current path 3.

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Installing DTM contacts

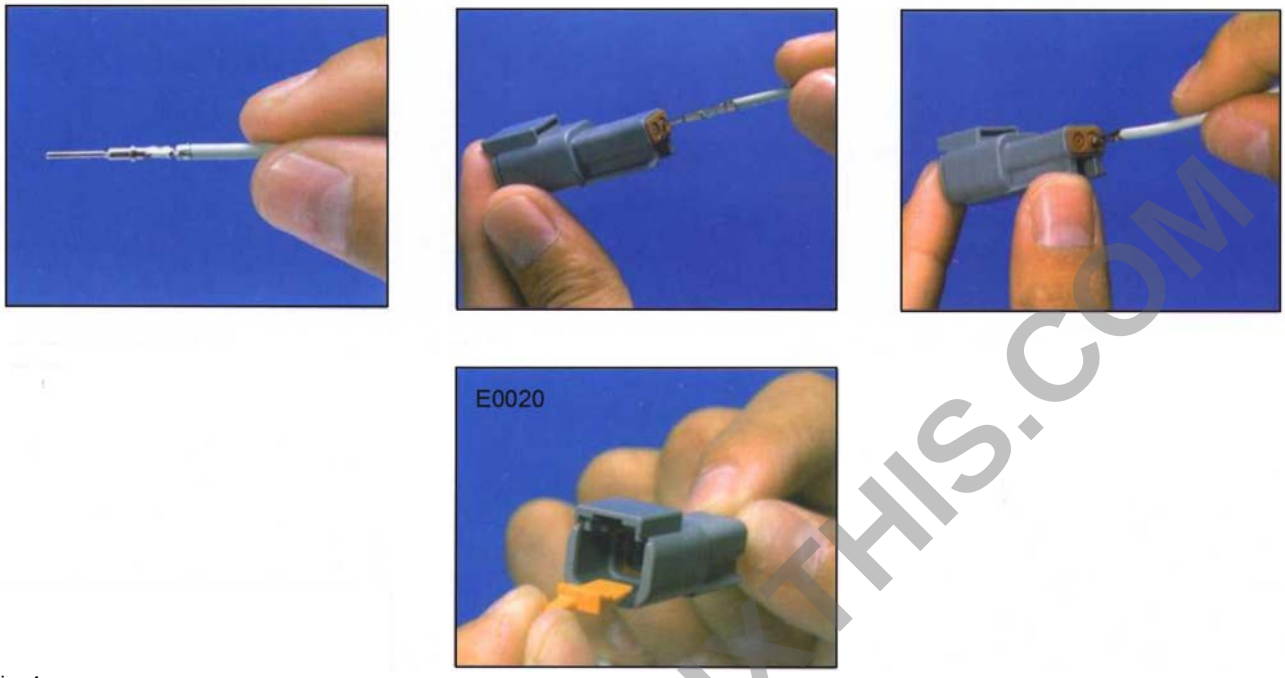


Fig. 4

- Insert the contacts through the rubber grommet until they click into place.
- Insert the orange wedge, until it clicks into place.

⚠ Caution

Perform a pull test on each lead, each of the terminals and connections must withstand a pulling force of 45 N without any difficulties.

i Note

Use the same method when assembling the socket.

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11.2 Description of fault reactions

Fault reaction	Description of fault reaction
1	Warning. Fault code is displayed. Audible signal in 5 second intervals.[2] Signal light in monitoring board lights in 5 second intervals.
2	Function affected, the faulty function is replaced by an emergency function. Fault code is displayed. Audible signal in 5 second intervals. Signal light in monitoring board lights in 5 second intervals.
3	Partial function faulty, the partial function cannot be overridden by an emergency function. After the occurrence of the fault the machine is stopped, after returning the travel lever to neutral the machine can move again. The machine can still be driven to a limited extent, but must be repaired by the service department as soon as possible. Fault code is displayed. Audible signal in 5 second intervals. Signal light in monitoring board lights in 5 second intervals.
4	Partial function faulty, the partial function cannot be overridden by an emergency function. The machine is no longer able to drive, e.g. because parts of the travel system are defective ☞ the diesel engine is shut down. Fault code is displayed. Audible signal in 1 second intervals. Signal light in monitoring board lights in 1 second intervals.
5	Fatal fault. The function of the control can no longer be guaranteed. Control is switched off. The fault code is displayed, the signal light in the monitoring board is permanently on. **No** audible signal!

Note:	**Errors with error reaction 1 are only warning messages and are NOT stored in the error log!**

[2] audible signal not with all faults (see page 3: "selected fault reactions of the ESX control")

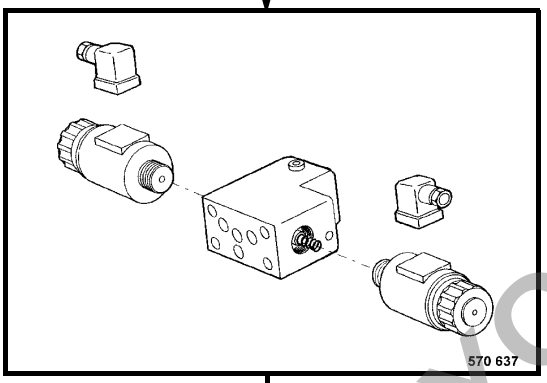
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Adjust the mechanical 0-position

- Connect control chamber ports X3 and X4 with a hose
- Connect 600 bar pressure gauges to MA and MB.
- Check which pump is delivering
- On this pump adjust the 0-position so that the pressure reading is below 60 bar
- Repeat this test until the lowest pressure value is reached
- Remove the connecting hose, repeat the pressure test

Check the control unit

- Remove the control unit
- Check the smooth movement of the control piston



Control unit OK?

no

Replace the control unit

yes

Replace, repair the travel pump

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Dryer / filter / fluid container / inspection glass

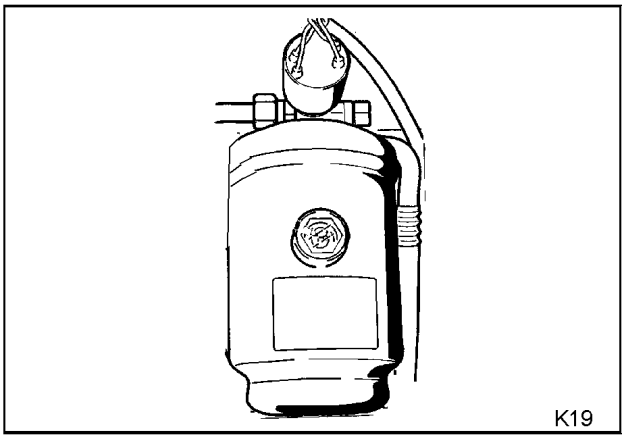


Fig. 1

Dryer / filter

The fluid container collects the fluid drops and passes these then as a constant flow to the expansion valve. Moisture that has entered during assembly of the refrigerant circuit is absorbed by a dryer in the fluid container.

At evaporation temperatures below zero the refrigerant will deposit previously absorbed moisture on the expansion valve, where this water turns into ice and thus adversely affects the controllability of the expansion valve. Moreover, moisture in the refrigerant circuit causes corrosion, forms acids and enters into chemical compositions.

Inside the refrigerant container the heavy liquid refrigerant collects in the lower part of the container, flows through a rising pipe to the outlet marked "A" and thus ensures bubble free operation of the expansion valve.

i Note

Since the absorbing capacity of this filter/dryer is limited, it must be changed within certain service intervals. We recommend to replace it 1 x per years, before the start of the season.

⚠ Caution

The filter/dryer must generally be replaced whenever opening the refrigerant circuit, because moisture will enter in such a case.

This requires emptying the air conditioning system!

Installation position:

The arrow marks on the filter/dryer must point in flow direction, i.e. towards the expansion valve.

Filter/dryer cannot be treated for further use!

Safety valve

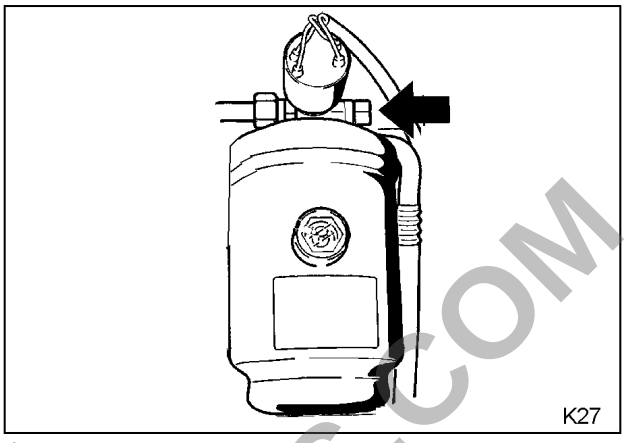


Fig. 2

The fluid container is equipped with a safety valve.

Response pressure 32 +/- 4 bar

Tightening torque 10 - 15 Nm

Inspection glass

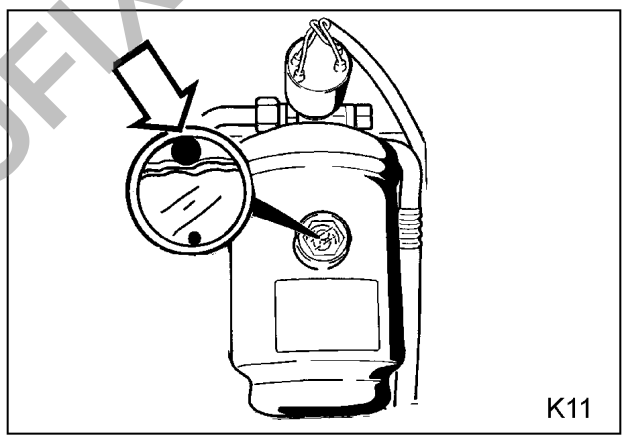


Fig. 3

During operation the refrigerant must flow through the inspection glass without air bubbles. In most cases the presence of air bubbles is a sign for a too low refrigerant level in the system. Apart from this, the refrigerant may not sufficiently condense as a result of a soiled evaporator or a defective condenser fan and the fluid level in the refrigerant container may drop down to a level, at which gaseous refrigerant could flow through the rising tube to the inspection glass. This results in abnormally high temperatures in and on the fluid lines (between refrigerant container and expansion valve), as well as very high pressures in the pressure side.

However, incorrect evacuation or filling may also be the reason for air entering into the system and since air cannot be condensed, one will not be able to get rid of these bubbles by topping up refrigerant. In this case the air conditioning system needs to be evacuated and refilled.

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In case of a system fault the piston detector (initiator) cannot register any piston movement and therefore the pump will not switch off.

With the help of the parallel running monitoring time the controls switch the pump off at the end of the monitoring time (5 minutes).

- This is followed by a fault signal
- The contact lamp flashes
- The pump does no longer start automatically.

F = **Acknowledgement of fault** (permanent light)

Pressing the button (< 1 second) acknowledges the fault signal, i.e the flashing of the control lamp changes to a permanent light.

i Note

An acknowledged fault also remains stored after switching the drive switch or the machine contact off. When switching on again the control lamp flashes again, according to the respective fault.

Rectify the fault and release additional lubrication

- In the event of a fault check the central lubrication pump and the connected system for faults.

Rectify the cause of the fault.

- Switch the pump on again by triggering an additional lubrication cycle. Keep the button slightly longer depressed (> 2 seconds). If the fault is eliminated, the control lamp will go out at the end of the lubrication process.

⚠ Caution

In case of a malfunction the pump will not automatically start to run again after rectification of the fault. The pump must be switched on.

Central lubrication pump

The pump is a compact multiple-line pump and consists of:

- container with stirring blade
- housing with built-in motor
- control unit
- Pump element
- safety valve and
- filler nipple

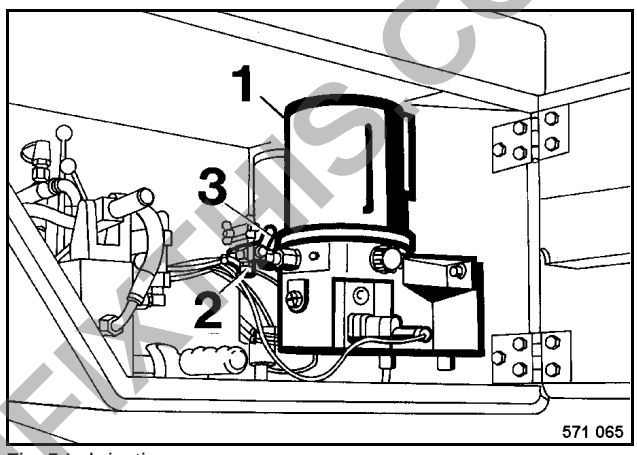


Fig. 5 Lubrication pump

1 transparent container

2 connecting fitting for manual filling gun

3 Grease emerging from the opening indicates that one of the lubrication points is clogged.

Pump element

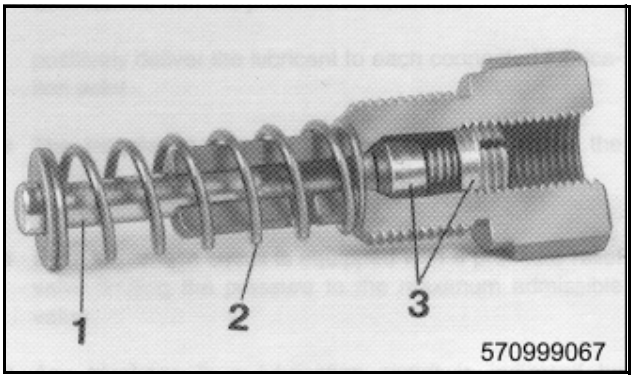


Fig. 6 Pump element

1 Piston

2 Push back spring

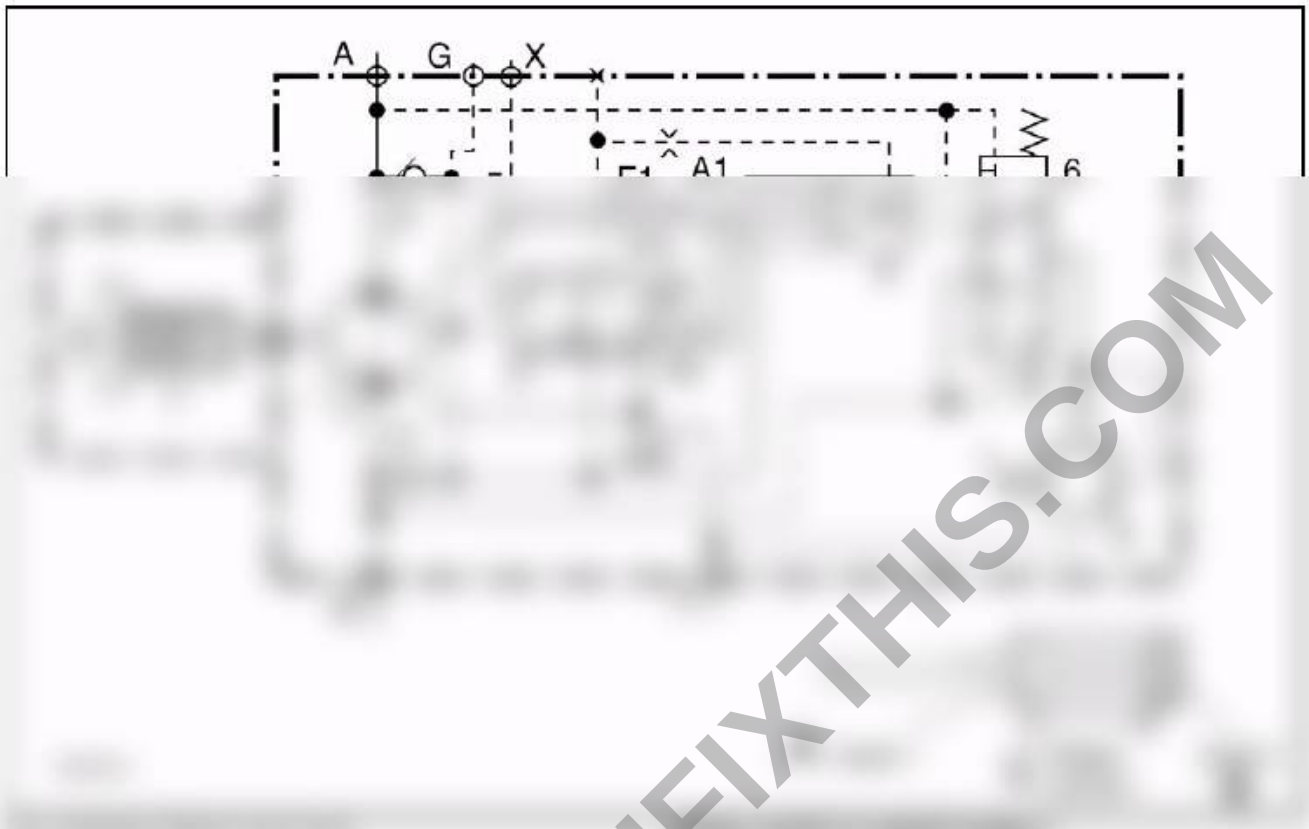
3 Check valve

The electric motor drives the eccentric 1 (Fig. 7).

During operation the piston 2 (Fig. 6) draws lubricant out of the grease container and delivers it via the distributor to the connected lubrication points in front and rear frames.

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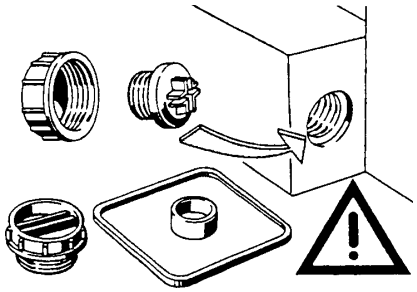
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Allgemeine Reparaturhinweise
General repair instructions



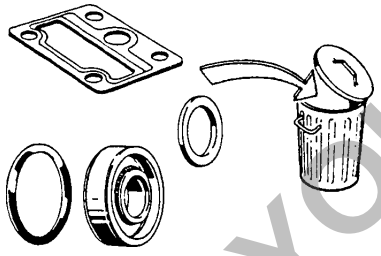
Achtung!
Nachfolgende Hinweise bei allen Reparaturarbeiten an Hydraulikaggregaten beachten!

Attention!
Observe the following notices when carrying out repair work at hydraulic aggregates!



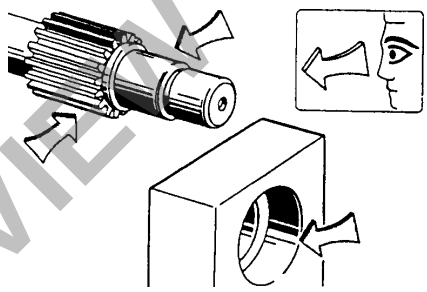
Alle Öffnungen der Hydraulikaggregate verschließen.

Close all ports of the hydraulic aggregates.



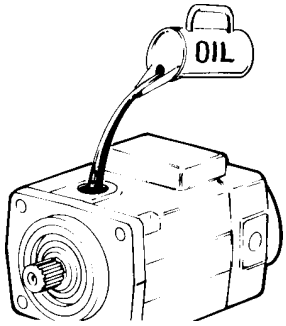
Alle Dichtungen erneuern.
Nur ORIGINAL BRUENINGHAUS HYDROMATIK -Ersatzteile verwenden.

Replace all seals.
Use only ORIGINAL BRUENINGHAUS HYDROMATIK spare parts.



Alle Dicht- und Gleitflächen auf Verschleiß prüfen.
Achtung: Nacharbeiten an Dichtflächen z.B. durch Schleifpapier kann die Oberfläche beschädigen.

Check all seal and sliding surfaces for wear.
Attention: Rework of sealing area f. ex. with abrasive paper can damage surface.



Hydraulikaggregate vor Inbetriebnahme mit Betriebsmedium befüllen.

Fill the hydraulic units with the operating medium before commissioning.

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Einstellhinweise - ND-Ventil (Speisedruck)

Adjustment instructions - Low pressure valve (Boost pressure)

Achtung!
Sicherheitsbestimmungen beachten!

Hinweis:
Nachjustierung nur bei Betriebstemperatur.

Manometer an "G" anschließen.

Achtung!
* Speisedruckeinstellung!
Nenndruck p_H - 20 bar
Höchstdruck p_H - 40 bar
Bei Max.-Drehzahl.

Hinweis:
Einstelldaten nach Werksauftrag.

* bei DA-Ausführung

Attention!
Observe safety regulations!

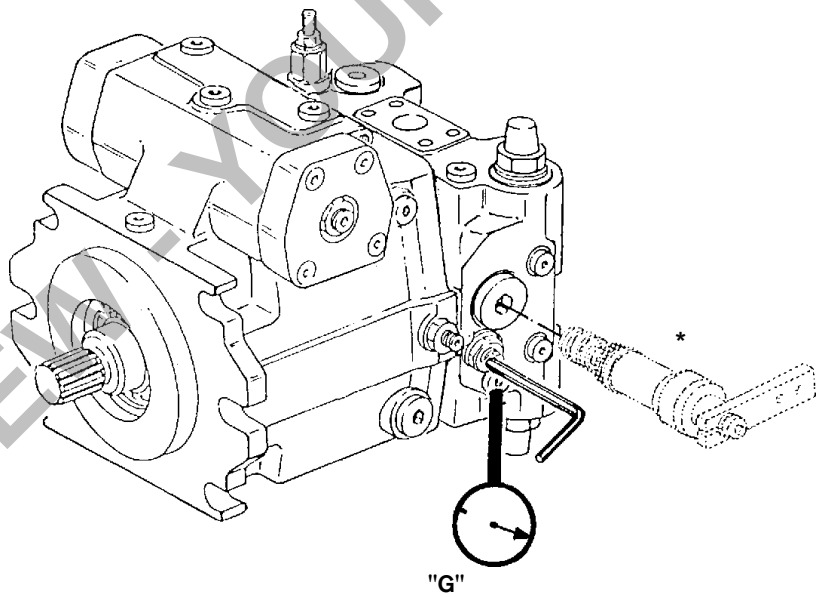
Note:
Readjusting only at operating temperature.

Connect pressure gauge to "G".

Attention!
* Boost pressure setting!
Nominal pressure p_H - 20 bar
Peak pressure p_H - 40 bar
at max. speed.

Note:
Setting data is in accordance to the works order.

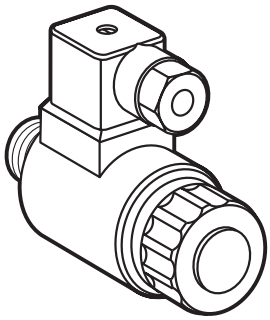
* with the DA version



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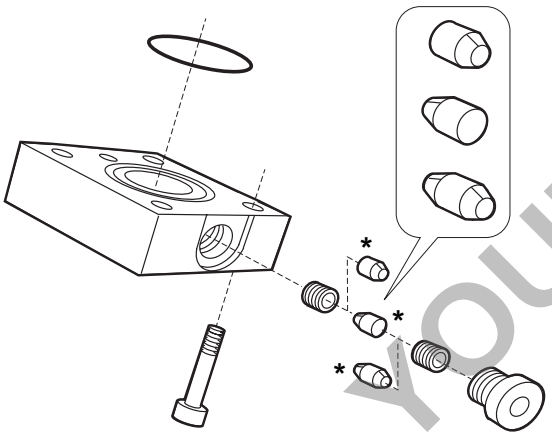
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Dichtsätze und Baugruppen
Seal kits and sub assembly groups



Schaltmagnet / Proportionalmagnet

Solenoid

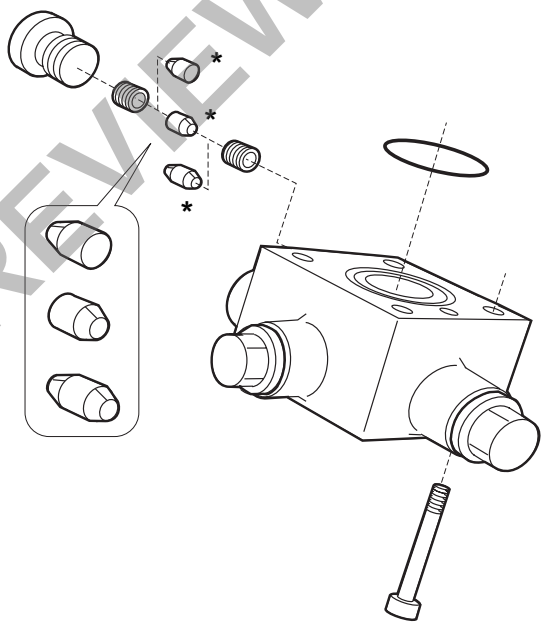


Deckel mit * Drosselstift.

* Drosselstift "Auftragsbezogen".

Cover with * throttle pin.

* Throttle pin "as to order requirement".



Deckel mit Spül- und Speisedruckventil und * Drosselstift

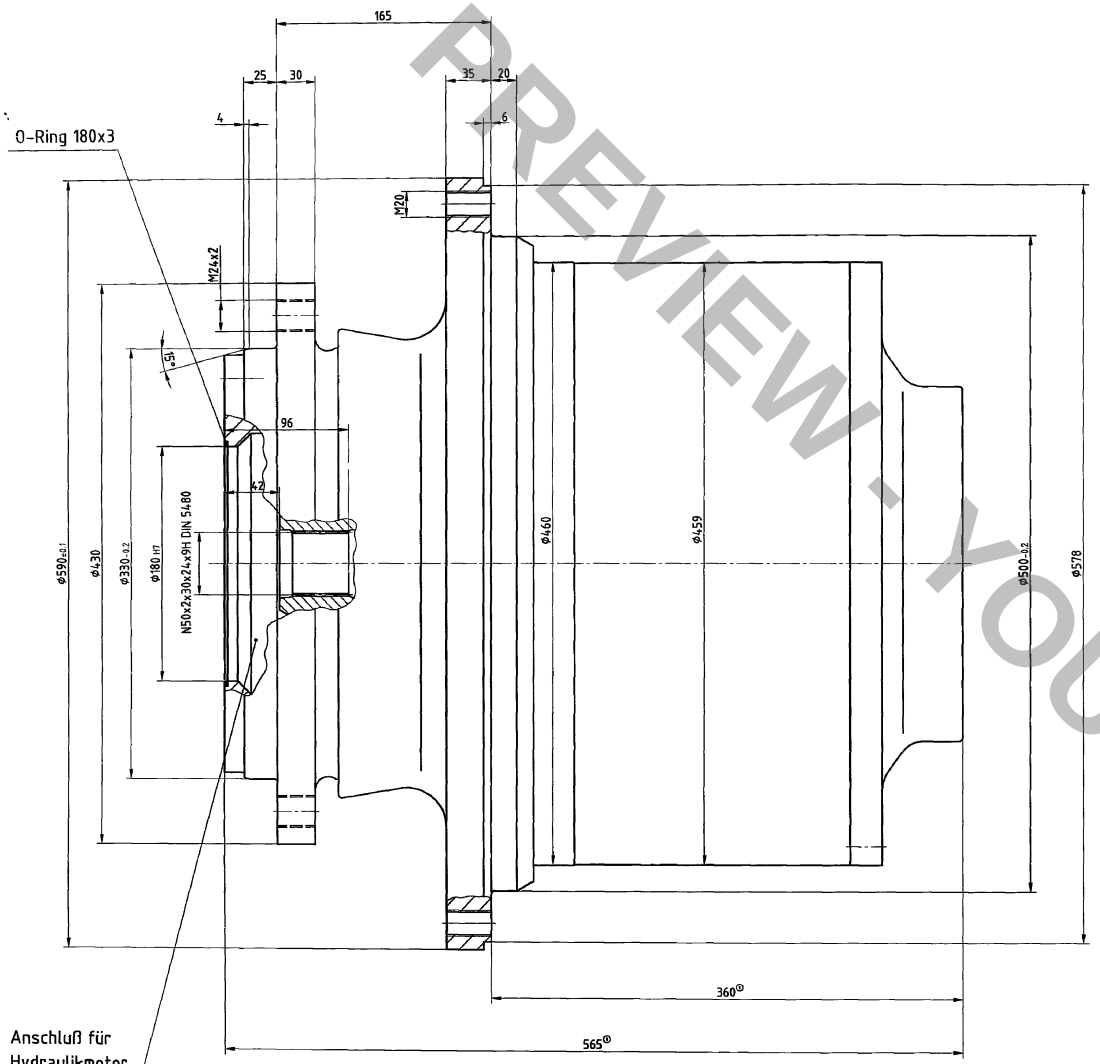
* Drosselstift "Auftragsbezogen".

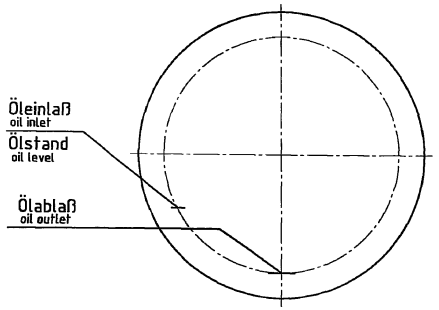
Cover with flushing and boost pressure valve and * throttle pin.

* Throttle pin "as to order requirement".

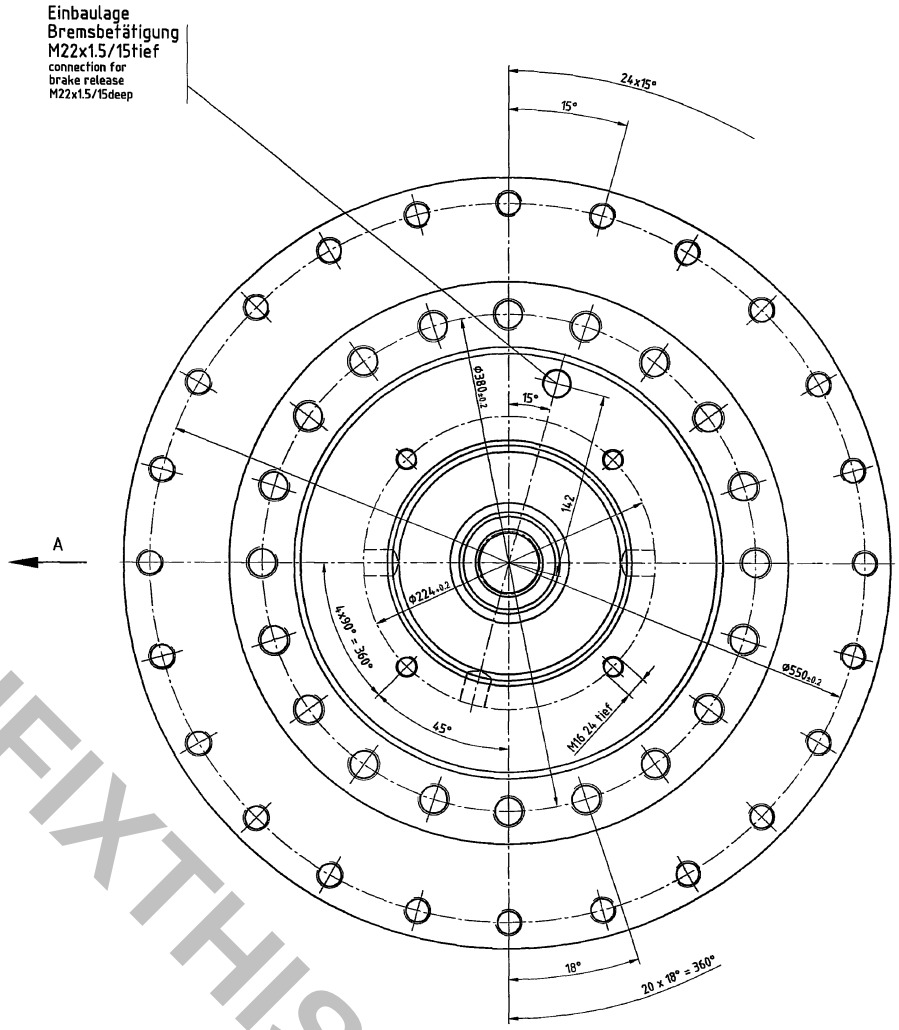
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Ansicht A
view A



Technische Daten		technical data	
Antriebsdrehmoment T1	1017 Nm	input torque T1	750.5 ft.lbs
Antriebsdrehzahl n1 max.	3054 min^{-1}	input speed n1 max.	3054 rpm
Übersetzung	83	ratio	83
Abtriebsdrehmoment T2 max.	84460 Nm	output torque T2 max.	62289 ft.lbs
Abtriebsdrehzahl n2	40 min^{-1}	output speed n2	40 rpm
Federdruck Lamellenbremse		spring applied,multi disk brake	
Bremsmoment statisch	1300 Nm	static brake torque	959 ft.lbs
Lüftdruck p	18	release pressure p	261
max.Lüftdruck p.max	50 bar	max.release pressure p.max	725 psi

Nr.	Änderung	Tag	geänd.	gepr.
1	2x	01.09.99	Schöner	

Rohteil :
Werkstoff :
Fertiggewicht :
Maße ohne Toleranzangaben : ISO 2768-mH

	Tag	Name
gez.	13.07.1999	Makalla
bearb.	13.07.99	
gepr.		

Lohmann + Stolterfoht

Ursprung (Typ): GFT 110 R3 9279

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Confidential, all rights reserved DIN 34

Benennung: Fahrgetriebe
propel drive

Maßstab 1:2

Zeichng.-Nr. 1/6158/5279/1

Urspr.-Zeichng.-Nr.

ACAD

Bl.

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Überprüfen Sie nach Erreichen der Betriebstemperatur das Getriebe auf Dichtigkeit.
Diese Prüfung können Sie während des Betriebes durchführen.

Die folgenden Überprüfungen dürfen Sie nur bei Stillstand des Getriebes durchführen.

Überprüfen Sie nach ca. 10 Stunden Vollastbetrieb sämtliche Befestigungsschrauben auf festen Sitz.

Überprüfen Sie den festen Sitz aller Schrauben des Getriebes.

Erster Ölwechsel nach ca. 50 Betriebsstunden durch BOMAG - Personal.

Weitere Ölwechsel sind entsprechend den im Wartungsplan (Kapitel 7.3) angegebenen Intervallen durchzuführen.

Bei jedem Ölwechsel sind die Magnetverschlußschrauben zu reinigen.

When the operating temperature has been reached, check the entire gearbox for tightness.
This check can be performed while the gearbox is running.

The following checks must only be carried out when the gearbox is at a standstill.

After 10 hours of full load operation check all fastening screws and boltings for tightness.

Check whether all bolts of the gearbox are tight as required.

First oil change is to be made after approx. 50 operating hours, by BOMAG - personnel.

Further oil changes are to be made at intervals as per the Maintenance Schedule given in Chapter 7.3.

Make sure that the magnetic screw plugs must be cleaned at each oil change.

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Standardverkabelung: standard wireing:	dicke Linien thick lines	Platinenverdrahtung: connection on printed circuit board:	dünne Linien thin lines

Inhaltsverzeichnis: BC 671...972 RB/RS EPA II
table of contents: BC 671...972 RB/RS EPA II

Blatt Nr.: sheet no.:	Zeichnungsnummer drawing – no.	Funktionsgruppe	function unit
001	570 700 26	Stromlaufplan	Circuit Diagram
002	570 700 26	Versorgung, Zigarettenanzünder	supply, cigarette lighter
003	570 700 26	Starten, Glühen	starting unit, pre glow control
004	570 700 26	Drehzahlregelung Deutz EMR	rpm control Deutz EMR
005	570 700 26	Instrumente	indicators
006	570 700 26	Anzeigen, Störmeldungen	monitoring, failure indication
007	570 700 26	Fahrpumpen, Radmotoren, Startfreigabe	driving pumps, weehl motors, starting release
008	570 700 26	Fahrstufen, Bremse, Warnsummer, Override	speed ranges, brakes, warning buzzers, override
009	570 700 26	Lenkung und Arbeitshydraulik	steering and working hydraulic system
010	570 700 26	Hupe, Schmieranlage, Sitzverstellung und –heizung	horn, lubrication systhem, seat hight adjustment / heating
011	570 700 26	Heizung und Belüftung	heating and ventilation
012	570 700 26	Schutzbelüftung, Klimaanlage	protected ventilation systhem, air conditioning
013	570 700 26	Kabine und Anbauteile	cabin and attachment–parts
101	570 700 26	Bauteilliste	component listing
201	570 700 26	Schaltkasten	e–box

1	2	3	4	5	6	7	8	9	10

	Gez.: 01.07.2002 Name: Werner Gepr.: 01.07.2002 Name: Seis	Stromlaufplan circuit diagram	Seite: page: 001 von: from: 001 Ers.f.: Replaces:	570 700 26 Blatt Nr.: sheet no.: 001

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Gez.: 04.04.2003
Name: Werner
Gepr.: 04.04.2003
Name: Seis

Bauteilliste
component listing

Seite: 7 von: 10
page: 7 from: 10

Ers.f.:
Replaces:

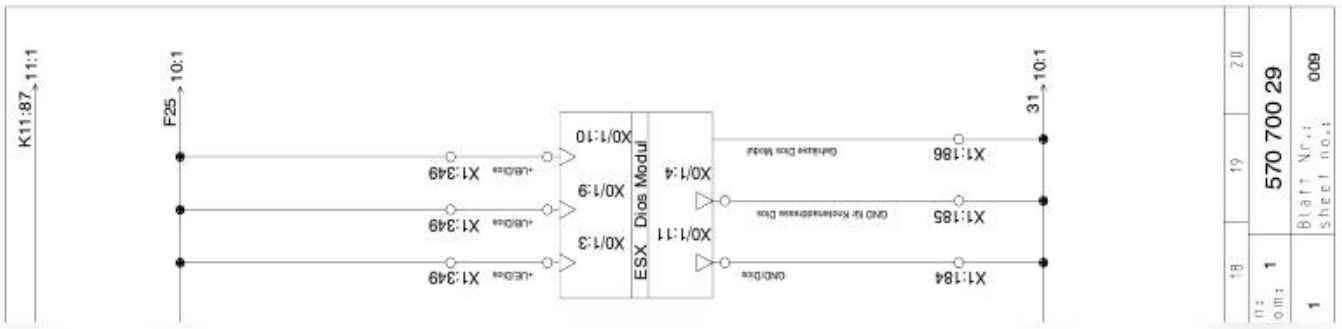
Blatt Nr.: 107
sheet no.:

570 700 27

Name	Bl.	Pf.	Benennung	title	TYP
X1:330	010	10	Wago Zentralelektrik	Wago e-box	
X1:331	010	11	Wago Zentralelektrik	Wago e-box	
X1:332	010	12	Wago Zentralelektrik	Wago e-box	
X1:333	010	15	Wago Zentralelektrik	Wago e-box	
X1:334	010	15	Wago Zentralelektrik	Wago e-box	
X1:335	007	6	WAGO ZENTRALELEKTRIK	WAGO E-BOX	
X1:336	007	9	WAGO ZENTRALELEKTRIK	WAGO E-BOX	
X1:337	007	7	WAGO ZENTRALELEKTRIK	WAGO E-BOX	
X1:338	007	6	WAGO ZENTRALELEKTRIK	WAGO E-BOX	
X1:339	007	5	WAGO ZENTRALELEKTRIK	WAGO E-BOX	
X1:33A	002	19	Sika – Klemme	fuse terminal	
X1:33E	002	17	SIKA KLEMME	fuse terminal	
X1:33E	002	19	Sika – Klemme	fuse terminal	
X1:340	007	6	WAGO ZENTRALELEKTRIK	WAGO E-BOX	
X1:341	011	15	Wago Zentralelektrik	Wago e-box	
X1:342	011	17	Wago Zentralelektrik	Wago e-box	
X1:343	008	4	Wago Zentralelektrik	Wago e-box	
X1:343	010	6	Wago Zentralelektrik	Wago e-box	
X1:344	010	5	Wago Zentralelektrik	Wago e-box	
X1:345	010	4	Wago Zentralelektrik	Wago e-box	
X1:346	010	4	Wago Zentralelektrik	Wago e-box	
X1:347	010	5	Wago Zentralelektrik	Wago e-box	
X1:348	010	6	Wago Zentralelektrik	Wago e-box	
X1:349	009	18	Wago Zentralelektrik	Wago e-box	
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X1:349	009	19	Wago Zentralelektrik	Wago e-box	
X1:349	010	17	Wago Zentralelektrik	Wago e-box	
X1:34A	011	10	Sika – Klemme	fuse terminal	
X1:34E	011	10	Sika – Klemme	fuse terminal	
X1:350	010	13	Wago Zentralelektrik	Wago e-box	
X1:351	010	13	Wago Zentralelektrik	Wago e-box	
X1:352	010	12	Wago Zentralelektrik	Wago e-box	
X1:353	010	14	Wago Zentralelektrik	Wago e-box	
X1:354	010	14	Wago Zentralelektrik	Wago e-box	
X1:355	011	19	Wago Zentralelektrik	Wago e-box	
X1:356	011	10	Wago Zentralelektrik	Wago e-box	
X1:357	008	17	Wago Zentralelektrik	Wago e-box	
X1:358	008	13	Wago Zentralelektrik	Wago e-box	
X1:359	008	14	Wago Zentralelektrik	Wago e-box	
X1:35A	009	2	Sika – Klemme	fuse terminal	
X1:35E	009	2	Sika – Klemme	fuse terminal	
X1:363	010	16	Wago Zentralelektrik	Wago e-box	
X1:364	010	19	Wago Zentralelektrik	Wago e-box	
X1:364	011	10	Wago Zentralelektrik	Wago e-box	
X1:36A	013	7	Sika – Klemme	fuse terminal	
X1:36E	013	7	Sika – Klemme	fuse terminal	
X1:371	003	18	Wago Zentralelektrik	Wago e-box	
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X1:372	014	20	Wago Zentralelektrik	Wago e-box	
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X1:374	012	15	Wago Zentralelektrik	Wago e-box	
X1:375	012	3	Wago Zentralelektrik	Wago e-box	
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X1:410/2	009	9	Wago Zentralelektrik	Wago e-box	
X1:411/1	009	10	Wago Zentralelektrik	Wago e-box	

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