

# Group 16: Options

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R 934 C from serial number 18 215

## Schematics chart for the options.....16.120

R 944 C from serial number 16 469

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R 954 C from serial number 14 968

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# Group 16: Options

## 16.110: Schematics chart for the options

R 934 C from serial number 18 215

To open schematics, clicks on correspondent Ident nbr.

Option		Hydraulic scheme		Electric scheme	
Denomination	Ident	Ident	Page	Ident	Page
<b>Hydraulic installations for additional users</b>					
Option rotating device	10060490			<a href="#">9947468</a>	*
Option AHS 11 until SN 21877	10060452	<a href="#">10072940</a>	<a href="#">16.140.18</a>	<a href="#">9949175</a>	<a href="#">16.150</a>
Option AHS 11 from SN 21878	10089614	<a href="#">10089880</a>	<a href="#">16.140.40</a>	<a href="#">9949175</a>	<a href="#">16.150</a>
Option AHS 12 with Tool Control	10060456	<a href="#">10075014</a>	<a href="#">16.140.20</a>	<a href="#">9949175</a>	<a href="#">16.150</a>
Option AHS 12 with Tool Control	10090183	<a href="#">10090184</a>	<a href="#">16.140.41</a>	<a href="#">9949175</a>	<a href="#">16.150</a>
Option demolition with Tool control	10071969	<a href="#">10369649</a>	<a href="#">16.140.47</a>	<a href="#">10066399</a> <a href="#">10079938</a> <a href="#">10082966</a>	<a href="#">16.150</a> <a href="#">16.150</a> <a href="#">16.150</a>
Cab height adjustable	10072003 10082472 10087826	<a href="#">10081966</a>	<a href="#">16.140.34</a>	<a href="#">10073080</a>	<a href="#">16.150</a>
Cab tilting device 30°	10071967	<a href="#">10081966</a>	<a href="#">16.140.34</a>	<a href="#">10374769</a>	<a href="#">16.150</a>
<b>Hydraulic installations for special controls</b>					
Positioning swing brake (foot operated)	10072011	<a href="#">10075283</a>	<a href="#">16.140.21</a>		
Control LIEBHERR	10071975	<a href="#">10366931</a>	<a href="#">16.140.45</a>		
Control commutation Special controls	10095885	<a href="#">10095887</a>	<a href="#">16.140.44</a>		
Floating position for boom (hammer)	10075538	<a href="#">10075541</a>	<a href="#">16.140.23</a>	<a href="#">10067247</a>	<a href="#">16.150</a>
Hoist limitation basic boom (depth)	10076357	<a href="#">10083417</a>	<a href="#">16.140.37</a>	<a href="#">10053393</a>	<a href="#">16.150</a>
Hoist limitation basic boom (depth)	10383067	<a href="#">10083417</a>	<a href="#">16.140.37</a>	<a href="#">10053393</a>	<a href="#">16.150</a>
Hoist limitation basic boom (Height)	10092083	<a href="#">10092086</a>	<a href="#">16.140.43</a>	<a href="#">10053393</a>	<a href="#">16.150</a>
Stick cylinder control stop	10087585	<a href="#">10087776</a>	<a href="#">16.140.39</a>	<a href="#">10053393</a>	<a href="#">100533</a>
<b>Driving of electro generators</b>					
Generator 15 kW LAM execution	10072001	<a href="#">10075588</a>	<a href="#">16.140.25</a>	<a href="#">10071216</a> <a href="#">10071219</a>	<a href="#">16.150.31</a> <a href="#">16.150.35</a>
Generator 20 kW LAM execution	10383627	<a href="#">10081697</a>	<a href="#">16.140.33</a>	<a href="#">10071216</a> <a href="#">10071219</a>	<a href="#">16.150.31</a> <a href="#">16.150.35</a>

Option		Hydraulic scheme		Electric scheme	
Denomination	Ident	Ident	Page	Ident	Page
<b>Additional floodlights</b>					
Additional light (4x front cab)	10367776			<a href="#">9947563</a>	<a href="#">16.150.12</a>
Additional light (Motor cover)	10090302			<a href="#">10090304</a>	<a href="#">16.150.46</a>
Additional light (Xenon)	10083197			<a href="#">10374548</a>	<a href="#">16.150.52</a>
Additional light (2 rear cab)	9598566			<a href="#">9954351</a>	<a href="#">16.150.14</a>
<b>Diesel engine, cooling &amp; additional heaters</b>					
Liebherr Particles filter	10365991			<a href="#">9634832</a>	<a href="#">16.150.3</a>
Refuelling pump	9946572			<a href="#">10054771</a>	<a href="#">16.150.21</a>
Reversible fan drive	10076741	<a href="#">10077514</a>	<a href="#">16.140.30</a>	<a href="#">10078780</a>	<a href="#">16.150.40</a>
Reversible fan drive	10088211	<a href="#">10077514</a>	<a href="#">16.140.30</a>	<a href="#">10078780</a>	<a href="#">16.150.40</a>
Standstill cab heater	10072054	<a href="#">9916962</a>	<a href="#">16.140.4</a>	<a href="#">10070659</a>	<a href="#">16.150.30</a>
Air compressor	10092871			<a href="#">10062784</a>	<a href="#">16.150.24</a>
Cab aeration v2	10083749			<a href="#">9986209</a>	<a href="#">16.150.16</a>
<b>Special lubrication systems</b>					
Full automatic centralised lubrication	9946585			<a href="#">10059464</a>	<a href="#">16.150.22</a>
<b>Emergency and safety devices</b>					
Travel alarm	10057682			<a href="#">10054413</a>	<a href="#">16.150.20</a>
Engine stop in cab	10084306			<a href="#">10084307</a>	<a href="#">16.150.43</a>
Delay engine cut-out	10082583			<a href="#">10367403</a>	<a href="#">16.150.49</a>
Stick cylinder control valve	10073752	<a href="#">10075501</a>	<a href="#">16.140.22</a>		
Bucket cylinder control valve	10082044	<a href="#">10082072</a>	<a href="#">16.140.35</a>		

\* See Subgroup 8.100

## 16.120: Schematics chart for the options

R 944 C from serial number 16 469

To open schematics, clicks on correspondent Ident nbr.

Option		Hydraulic scheme		Electric scheme	
Denomination	Ident	Ident	Page	Ident	Page
<b>Hydraulic installations for additional users</b>					
Option rotating device	10057691 10088821 10092887			<a href="#">9947468</a>	*
Option AHS 11 until SN 18457	10057666	<a href="#">10064184</a>	<a href="#">16.140.8</a>	<a href="#">9949175</a>	<a href="#">16.150.</a>
Option AHS 11 from SN 18458	10078642	<a href="#">10064184</a>	<a href="#">16.140.8</a>	<a href="#">9949175</a>	<a href="#">16.150.</a>
Option AHS 12 until SN 18586	10064967	<a href="#">10064966</a>	<a href="#">16.140.9</a>	<a href="#">9949175</a>	<a href="#">16.150.</a>
Option AHS 12 from SN 18587	10078644	<a href="#">10064966</a>	<a href="#">16.140.9</a>	<a href="#">9949175</a>	<a href="#">16.150.</a>
Option demolition with Tool control	10072145	<a href="#">10073395</a>	<a href="#">16.140.19</a>	<a href="#">10066399</a> <a href="#">10079938</a> <a href="#">10082966</a>	<a href="#">16.150.</a> <a href="#">16.150.</a> <a href="#">16.150.</a>
Hydraulic removable counterweight	10066105	<a href="#">10066129</a>	<a href="#">16.140.11</a>		
Hydr. device for undercarriage with variable gauge	10072263	<a href="#">10378151</a>	<a href="#">16.140.49</a>	<a href="#">10378051</a>	<a href="#">16.150.</a>
Cab height adjustable	10072280 10084291 10091342	<a href="#">10066272</a>	<a href="#">16.140.13</a>	<a href="#">10073080</a>	<a href="#">16.150.</a>
Cab tilting device 30°	10072143 10094893	<a href="#">10066272</a>	<a href="#">16.140.13</a>	<a href="#">10374769</a>	<a href="#">16.150.</a>
<b>Hydraulic installations for special controls</b>					
Positioning swing brake (foot operated)	10057672	<a href="#">10052168</a>	<a href="#">16.140.6</a>		
Control LIEBHERR	10078172	<a href="#">10078173</a>	<a href="#">16.140.32</a>		
Control commutation AHS / bucket	10073329	<a href="#">10076148</a>	<a href="#">16.140.27</a>	<a href="#">10075863</a>	<a href="#">16.150.</a>
Control commutation PCSA / J. DEER	10075831	<a href="#">10075832</a>	<a href="#">16.140.26</a>	<a href="#">9823500</a>	<a href="#">16.150.</a>
Control commutation hammer / shear	10075926	<a href="#">10076291</a>	<a href="#">16.140.28</a>	<a href="#">10060796</a>	<a href="#">16.150.</a>
Floating position for boom (hammer)	10057898	<a href="#">10066692</a>	<a href="#">16.140.14</a>	<a href="#">10067247</a>	<a href="#">16.150.</a>
Hoist limitation basic boom (depth)	10076966	<a href="#">10082932</a>	<a href="#">16.140.36</a>	<a href="#">10053393</a>	<a href="#">16.150.</a>
Hoist limitation basic boom (height)	10376740	<a href="#">10376753</a>	<a href="#">16.140.48</a>	<a href="#">10053393</a>	<a href="#">16.150.18</a>
Stick cylinder control stop	10079818	<a href="#">10075542</a>	<a href="#">16.140.24</a>	<a href="#">10053393</a>	<a href="#">16.150.18</a>
<b>Driving of electro generators</b>					
Generator 20 kW (not LAM)	10057692	<a href="#">10076683</a>	<a href="#">16.140.29</a>	<a href="#">10071216</a> <a href="#">10071219</a>	<a href="#">16.150.31</a> <a href="#">16.150.35</a>

R 944 C from serial number 16 469

Option		Hydraulic scheme		Electric scheme	
Denomination	Ident	Ident	Page	Ident	Page
Generator 20 kW (LAM)	10073748	<a href="#">10076683</a>	<a href="#">16.140.29</a>	<a href="#">10071216</a> <a href="#">10071219</a>	<a href="#">16.150.31</a> <a href="#">16.150.35</a>
Generator 20 kW (LAM)	10380459	<a href="#">10076683</a>	<a href="#">16.140.29</a>	<a href="#">10071216</a> <a href="#">10071219</a>	<a href="#">16.150.31</a> <a href="#">16.150.35</a>
<b>Additional floodlights</b>					
Additional light (4x front cab)	10367776			<a href="#">9947563</a>	<a href="#">16.150.12</a>
Additional light (1x front cab)	10087856			<a href="#">9945444</a>	<a href="#">16.150.11</a>
Additional light (2 rear cab)	9598566			<a href="#">9954351</a>	<a href="#">16.150.14</a>
Additional light (1x attachment)	10082462			<a href="#">9947468</a>	*
Additional light (2x counterweight)	10087602			<a href="#">9947468</a>	*
Additional light (2x counterweight)	10381637			<a href="#">9947468</a>	*
<b>Diesel engine, cooling &amp; additional heaters</b>					
Particles filter Liebherr	10366253			<a href="#">9634832</a>	<a href="#">16.150.3</a>
Refuelling pump	9946572			<a href="#">10054771</a>	<a href="#">16.150.21</a>
Reversible fan drive	10073736	<a href="#">10077514</a>	<a href="#">16.140.30</a>	<a href="#">10078780</a>	<a href="#">16.150.40</a>
Reversible fan drive	10088194	<a href="#">10369149</a>	<a href="#">16.140.46</a>	<a href="#">10078780</a>	<a href="#">16.150.40</a>
Reversible fan drive	10076741	<a href="#">10077514</a>	<a href="#">16.140.30</a>	<a href="#">10078780</a>	<a href="#">16.150.40</a>
Reversible fan drive	10088211	<a href="#">10077514</a>	<a href="#">16.140.30</a>	<a href="#">10078780</a>	<a href="#">16.150.40</a>
Standstill cab heater	10057684	<a href="#">9916962</a>	<a href="#">16.140.4</a>	<a href="#">10070659</a>	<a href="#">16.150.30</a>
Air compressor	10366936			<a href="#">10062784</a>	<a href="#">16.150.24</a>
<b>Special lubrication systems</b>					
Full automatic centralised lubrication	10057668			<a href="#">10059464</a>	<a href="#">16.150.22</a>
<b>Emergency and safety devices</b>					
Travel alarm	10057682			<a href="#">10054413</a>	<a href="#">16.150.20</a>
Engine stop in cab	10089806			<a href="#">10094192</a>	<a href="#">16.150.47</a>
Engine stop on counterweight	10087014			<a href="#">10084307</a>	<a href="#">16.150.43</a>
Delay engine cut-out	10082601			<a href="#">10367403</a>	<a href="#">16.150.49</a>

\* See Subgroup 8.100

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## 16.130: Schematics chart for the options

R 954 C from serial number 14 968

To open schematics, clicks on correspondent Ident nbr.

Option		Hydraulic scheme		Electric scheme	
Denomination	Ident	Ident	Page	Ident	Page
<b>Hydraulic installations for additional users</b>					
Option rotating device	10060036			<a href="#">9947468</a>	*
Option AHS 11	9946562	<a href="#">10049470</a>	<a href="#">16.140.5</a>	<a href="#">9949175</a>	<a href="#">16.150</a>
Option AHS 12	9946564	<a href="#">10061431</a>	<a href="#">16.140.7</a>	<a href="#">9809954</a>	<a href="#">16.150</a>
Option demolition with Tool control	10066087	<a href="#">10066088</a>	<a href="#">16.140.10</a>	<a href="#">10066399</a> <a href="#">10079938</a> <a href="#">10082966</a>	<a href="#">16.150</a> <a href="#">16.150</a> <a href="#">16.150</a>
Hydraulic removable counterweight	10066146	<a href="#">10066147</a>	<a href="#">16.140.12</a>		
Cab height adjustable	10066831 10083371 10083842	<a href="#">10066272</a>	<a href="#">16.140.13</a>	<a href="#">10073080</a>	<a href="#">16.150</a>
Cab tilting device 30°	10077217	<a href="#">10066272</a>	<a href="#">16.140.13</a>	<a href="#">10374769</a>	<a href="#">16.150</a>
<b>Hydraulic installations for special controls</b>					
Positioning swing brake (foot operated)	10051370	<a href="#">9866127</a>	<a href="#">16.140.3</a>		
Control commutation Special controls	10071797	<a href="#">10071798</a>	<a href="#">16.140.16</a>	<a href="#">9823500</a>	<a href="#">16.150</a>
Hoist limitation basic boom (depth)	10076966	<a href="#">10082932</a>	<a href="#">16.140.36</a>	<a href="#">10053393</a>	<a href="#">16.150</a>
Stick cylinder control stop	10077664	<a href="#">10077904</a>	<a href="#">16.140.31</a>	<a href="#">10053393</a>	<a href="#">16.150</a>
<b>Driving of electro generators</b>					
Generator 20 kW non LAM execution	10081163	<a href="#">10071367</a>	<a href="#">16.140.15</a>	<a href="#">10071216</a> <a href="#">10071219</a>	<a href="#">16.150</a> <a href="#">16.150</a>
Generator 25 kW LAM execution	10086873	<a href="#">10086917</a>	<a href="#">16.140.38</a>	<a href="#">10071216</a> <a href="#">10071219</a>	<a href="#">16.150</a> <a href="#">16.150</a>
<b>Additional floodlights</b>					
Additional light (2 rear cab)	9598566			<a href="#">9954351</a>	<a href="#">16.150</a>
<b>Diesel engine, cooling &amp; additional heaters</b>					
Reversible fan drive	10088214	<a href="#">10091351</a>	<a href="#">16.140.42</a>	<a href="#">10078780</a>	<a href="#">16.150</a>
Standstill cab heater	10060115	<a href="#">9916962</a>	<a href="#">16.140.4</a>	<a href="#">10070659</a>	<a href="#">16.150</a>
<b>Special lubrication systems</b>					
Full automatic centralised lubrication	9946585			<a href="#">10059464</a>	<a href="#">16.150.22</a>
<b>Emergency and safety devices</b>					
Emergency control for boom cylinders	10072870	<a href="#">10072892</a>	<a href="#">16.140.17</a>		

R 954 C from serial number 14 968

Option		Hydraulic scheme		Electric scheme	
Denomination	Ident	Ident	Page	Ident	Page
Travel alarm	10057682			<a href="#">10054413</a>	<a href="#">16.150.20</a>
Engine emergency shut down	10087596			<a href="#">10084307</a>	<a href="#">16.150.43</a>

\* See Subgroup 8.100

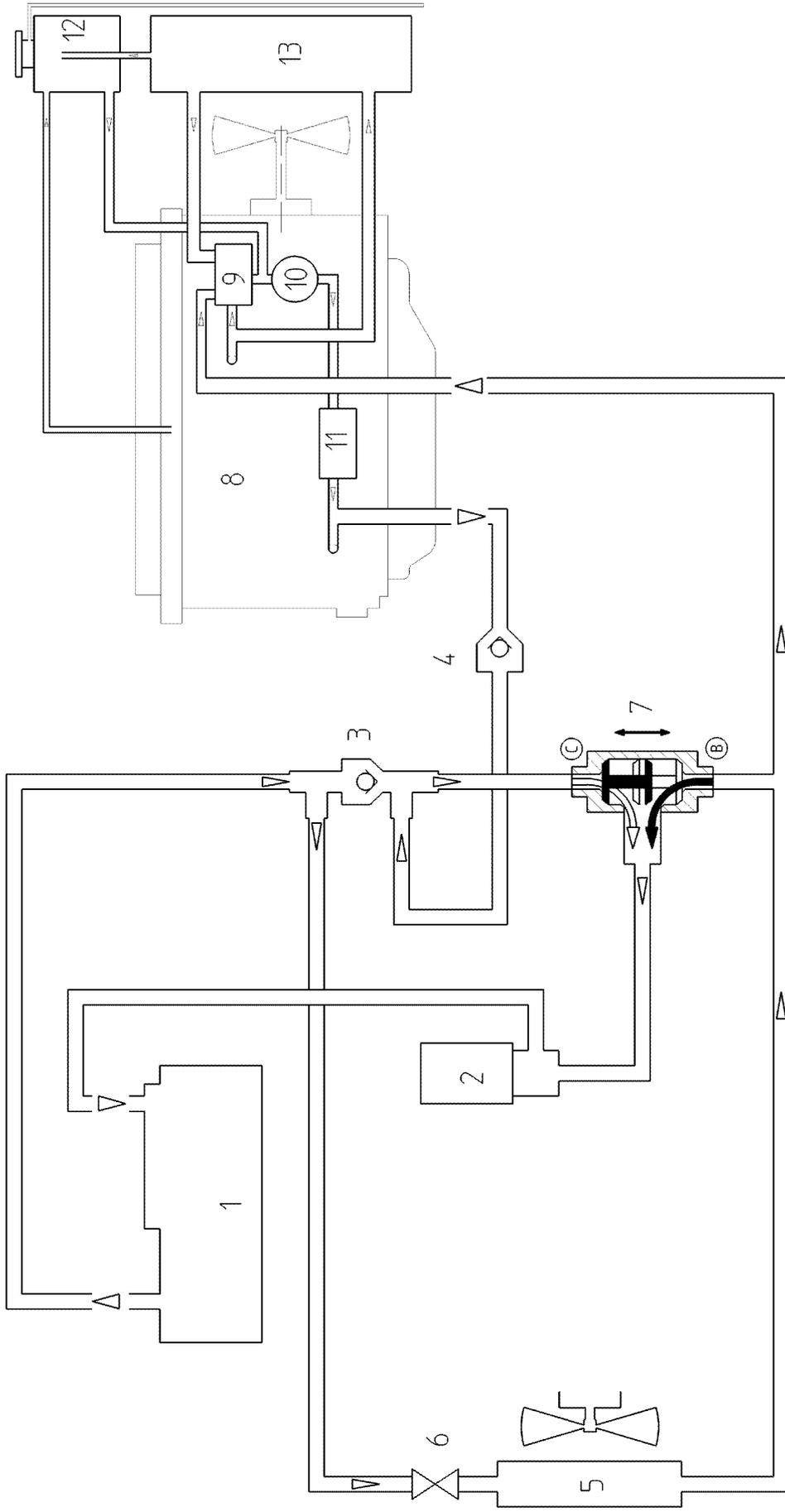
## 16.140: Hydraulic schematics for options

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- 2 WASSERPUMPE - WATERPUMP - POMPE A EAU
- 3 RUECKSCHLAGVENTIL - CHECK VALVE - CLAPET ANTI RETOUR (BYPASS)
- 4 RUECKSCHLAGVENTIL - CHECK VALVE - CLAPET ANTI RETOUR
- 5 KABINEHEIZUNG - HEAT EXCHANGER - ECHANGEUR DE CHALEUR
- 6 HEIZMAGNETVENTIL - HEATING MAGNET VALVE - ELECT.VANNE CHAUFF.
- 7 THERMOSTAT
- 8 MOTOR - ENGINE - MOTEUR
- 9 THERMOSTAT
- 10 WASSERPUMPE - WATERPUMP - POMPE A EAU
- 11 WÄRMETAUSCHMOTORÖL - HEAT EXCHMOTOR OIL - ECHCHAL.HUILE MOT.
- 12 AUSGLEICHBEHÄLTER - TOP TANK - VASE EXPANSION
- 13 WASSERKÜHLER - WATER COOLER - RADIATEUR EAU

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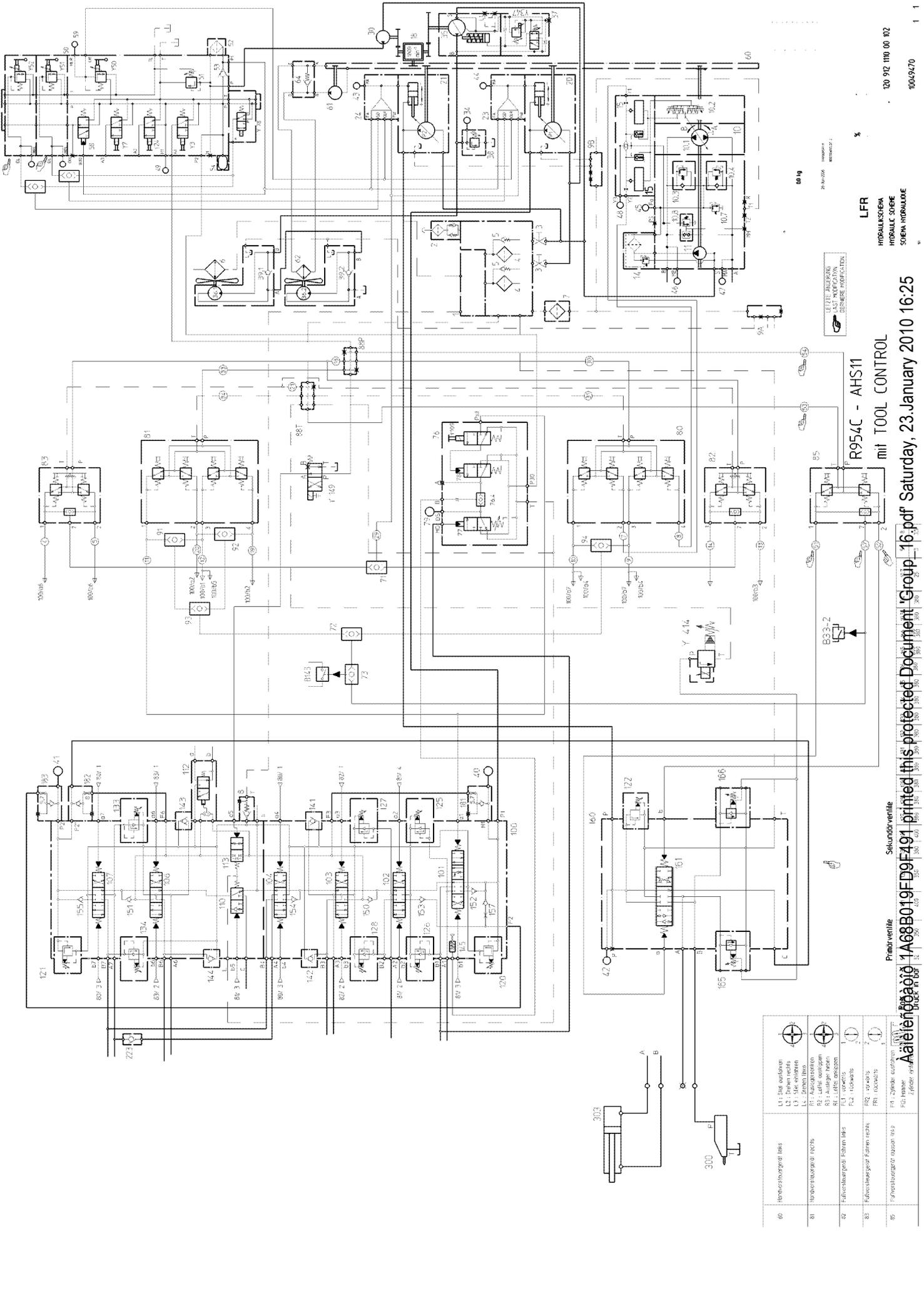
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82	Fahrerbetriebsl. Fahren links	
83	Fahrerbetriebsl. Fahren rechts	
85	Fahrerbetriebsl. lassen 0+2	

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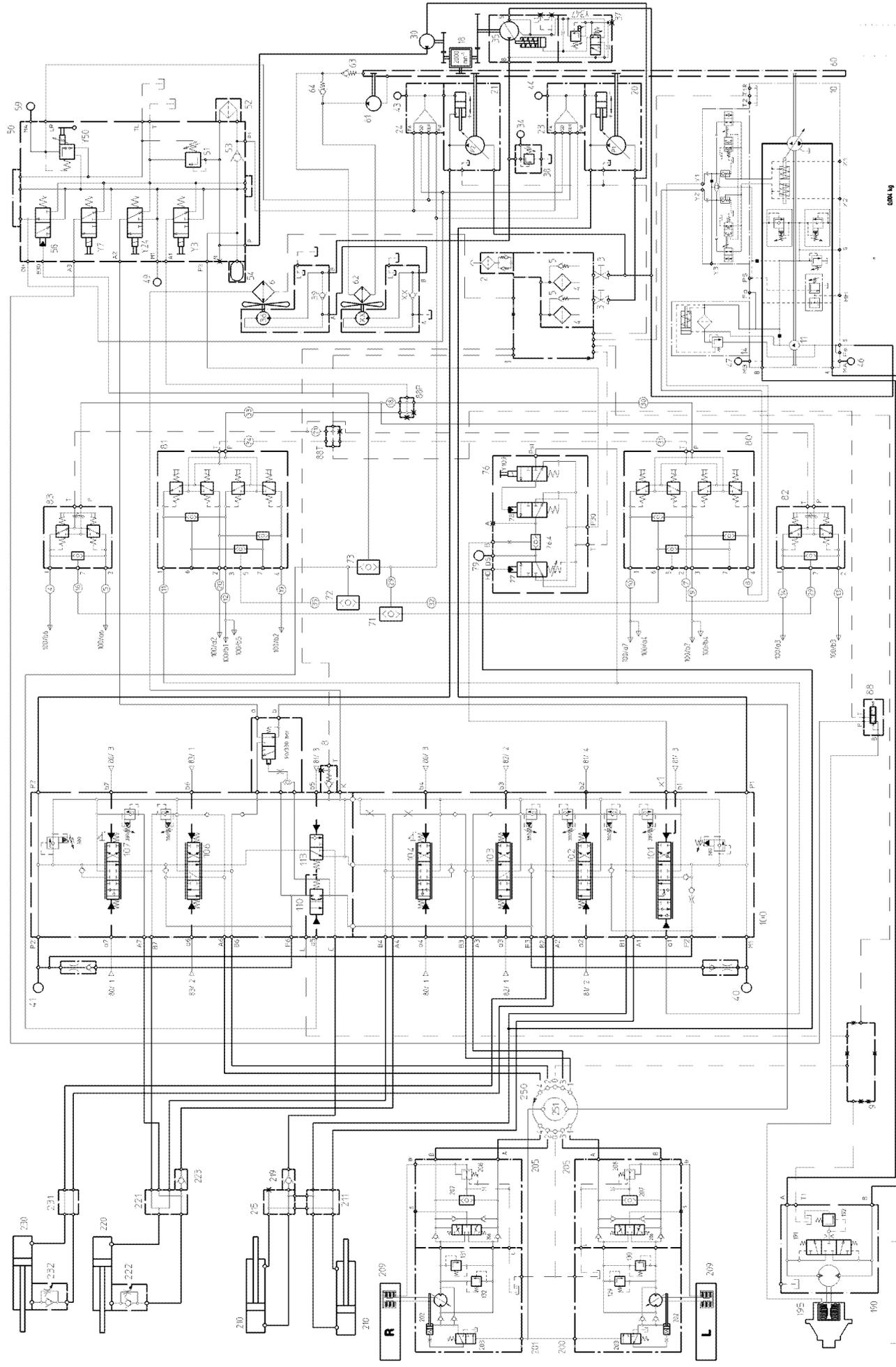
R954C - AHS11  
 mit TOOL CONTROL

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 HYDRAULIKSCHEMA  
 HYDRAULIC SCHEM  
 SCHEMA IDRAULICO

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Hydraulischer Lufteintrieb		Sekundärventile	
Pos	Ausführung	Druck in bar	Druck in bar
37	Europa	10	10
38	Tropen	10	10
39		10	10

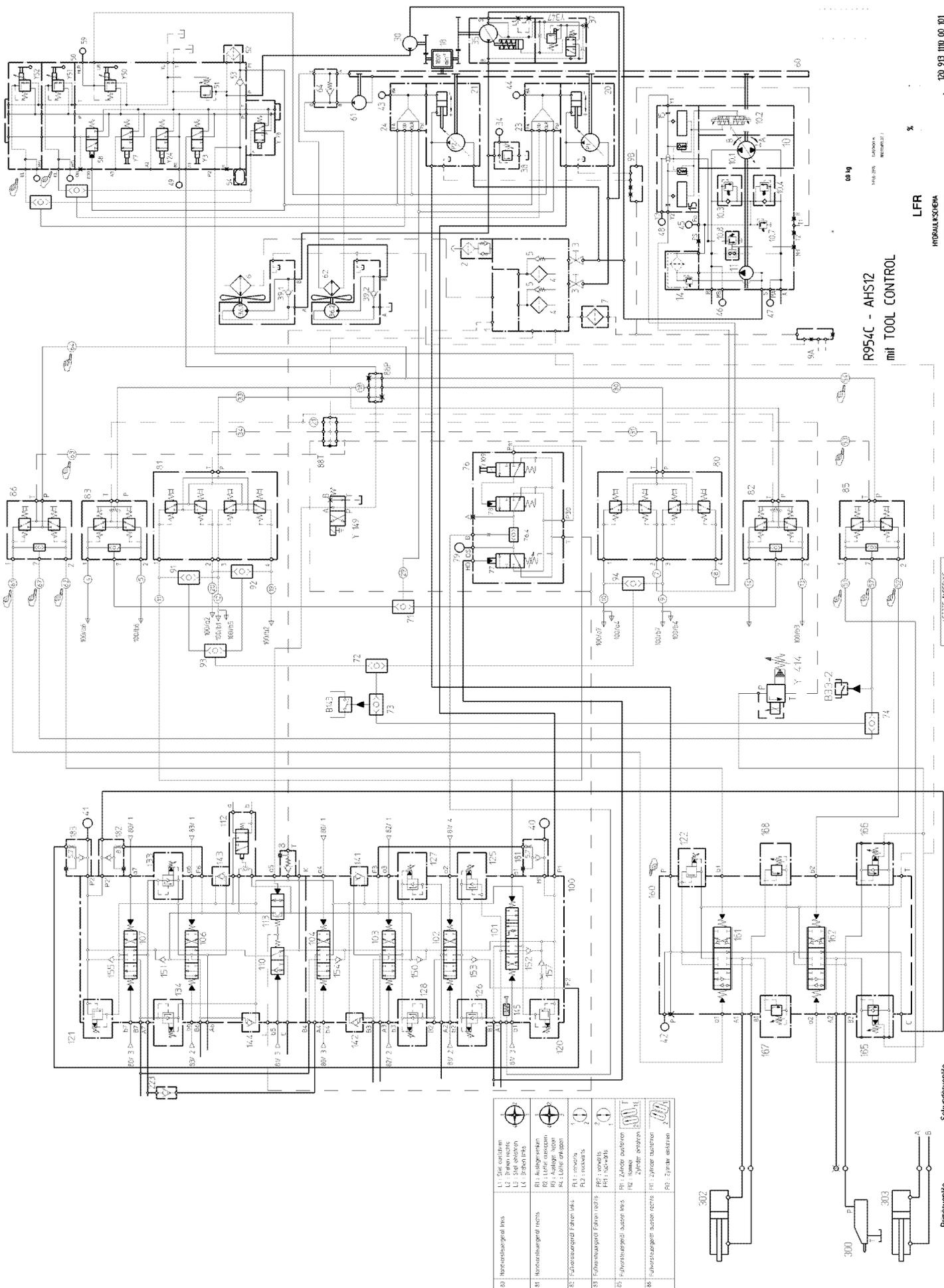
Pos Pumpen		Pos Motoren	
1	2	3	4
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
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33	34	35	36
37	38	39	40
41	42	43	44
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53	54	55	56
57	58	59	60
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65	66	67	68
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73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

80 Hydroschieber (rechts)  
 81 Hydroschieber (links)  
 82 Fahrwerksgear (rechts)  
 83 Fahrwerksgear (links)

L1: Bild rechts  
 L2: Bild links  
 L3: Bild unten  
 L4: Bild oben

R1: Ausgängen  
 R2: Ausgängen  
 R3: Ausgängen  
 R4: Ausgängen  
 R5: Ausgängen

100: 100 bar  
 200: 200 bar  
 300: 300 bar  
 400: 400 bar  
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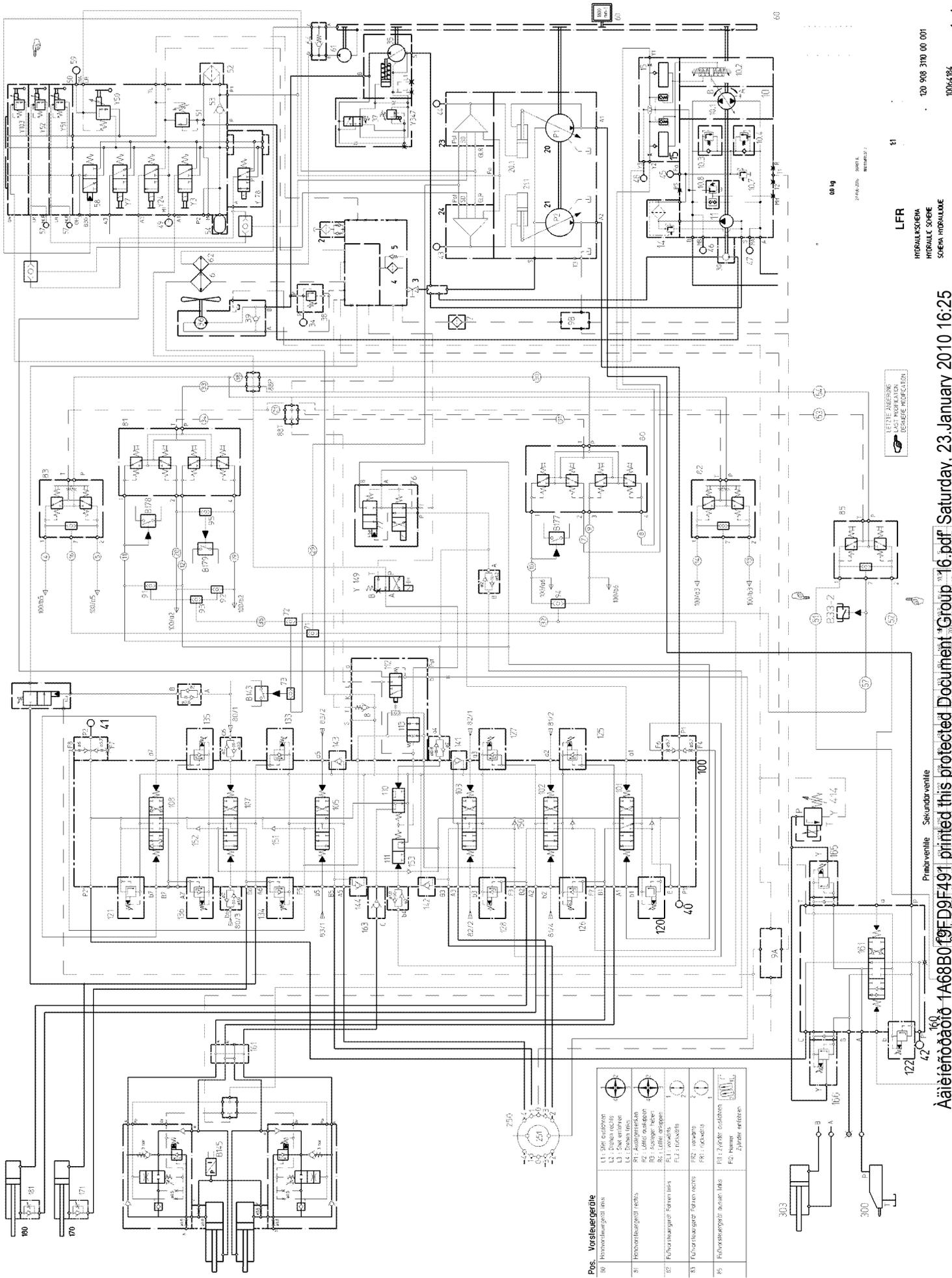
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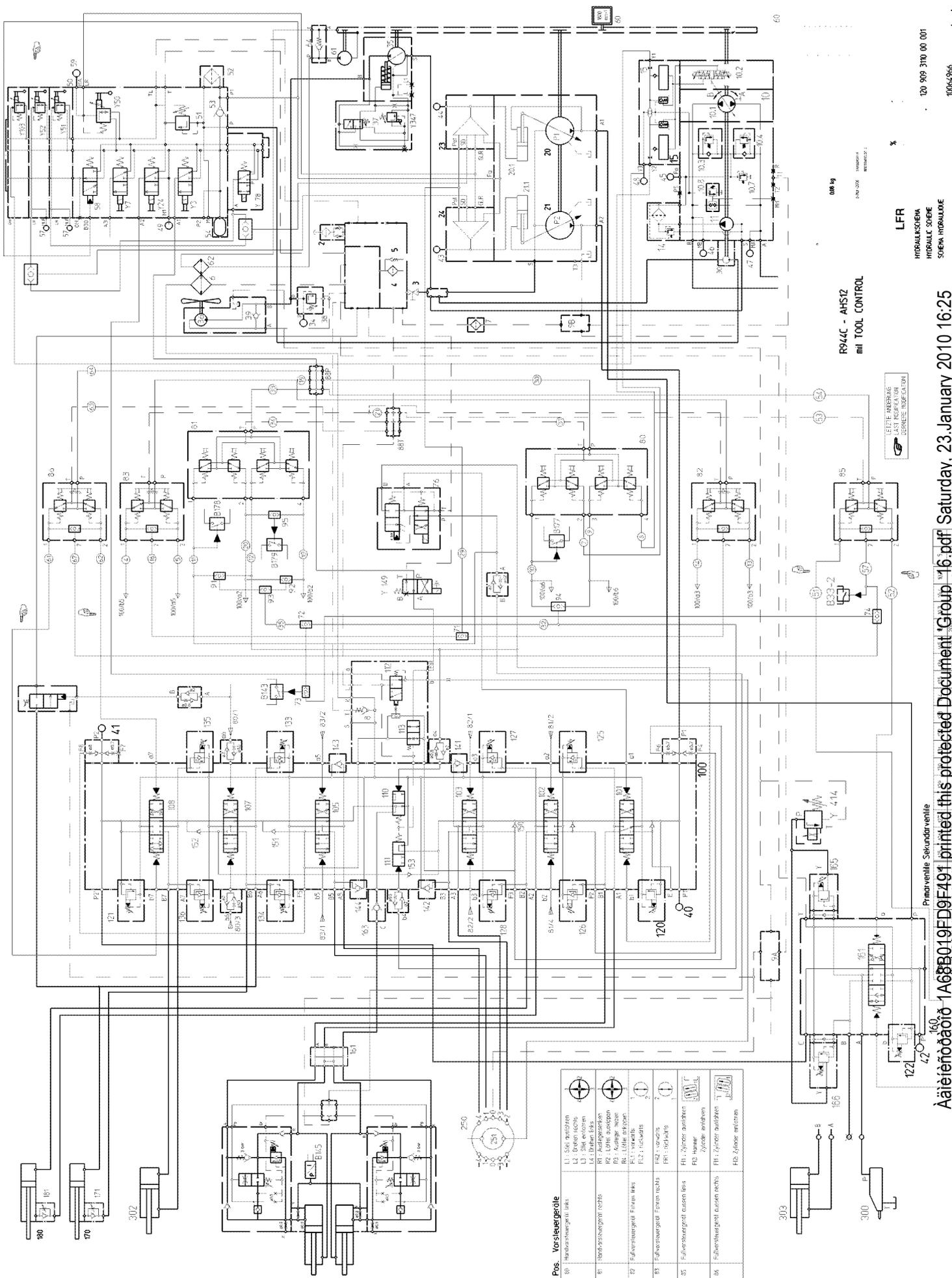


**Pos. Vorsteuergeräte**

50	Hydrovorsteuerglied links	L1: 500l Ölwanne L2: 500l Ölwanne L3: 500l Ölwanne L4: 500l Ölwanne
81	Hydrovorsteuerglied rechts	R1: Auslöserkabel R2: Löffel auslösen R3: Löffel auslösen R4: Löffel auslösen
82	Fußvorsteuerglied Fahrer links	FL1: rechts FL2: links
83	Fußvorsteuerglied Fahrer rechts	FR1: rechts FR2: links
85	Fußvorsteuerglied Ausser links	RL1: Z-Achse auslösen R2: Hammer Z: Zylinder einziehen

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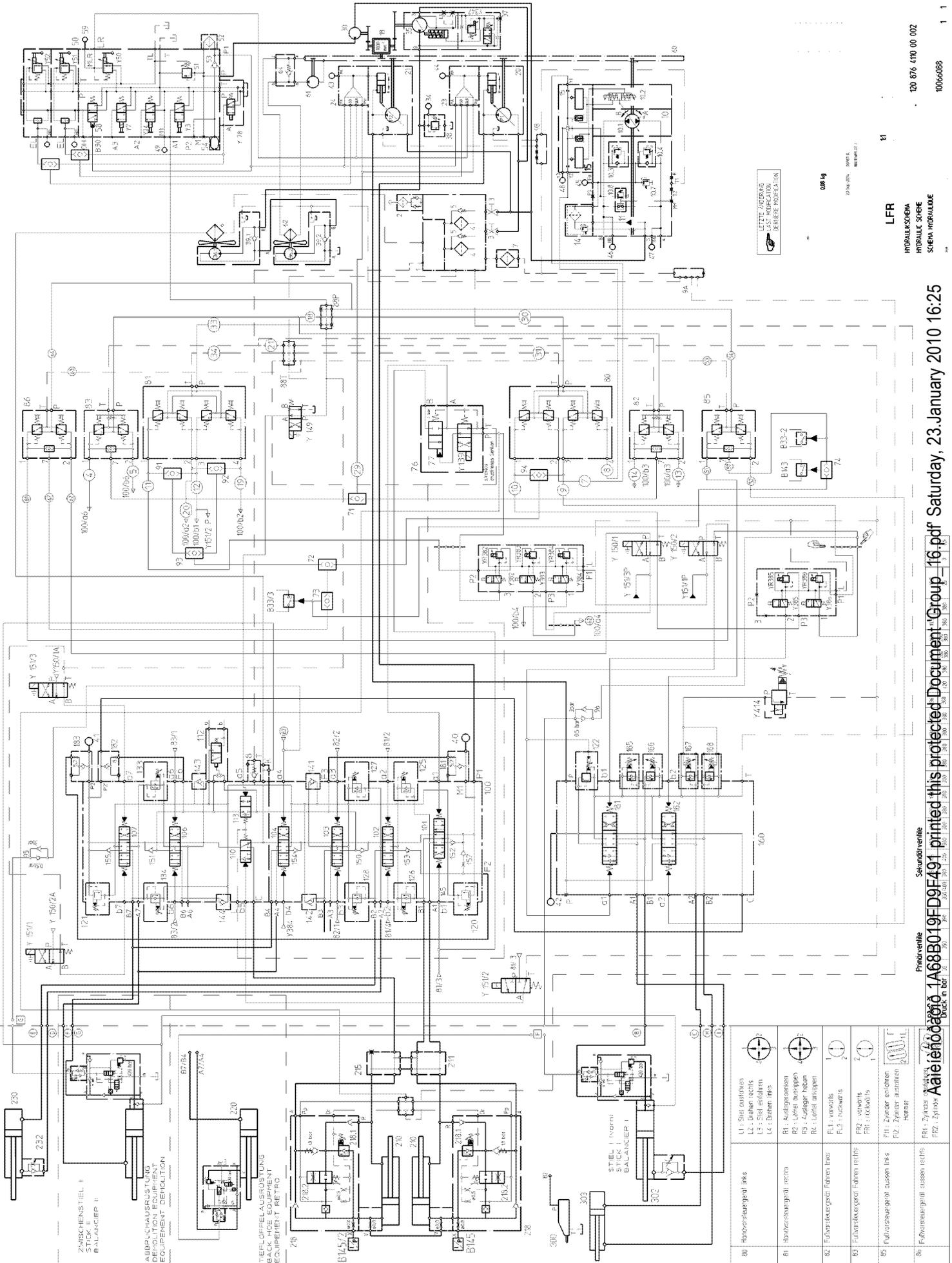
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SCHEM IDRAULICO

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DOPISNE NOTIFICATION

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Primárventile Sekundárventile

Pos.	Vysvetlenie
10	Hydraulický nádobník
11	Stlačený vzduch
12	Stlačený vzduch
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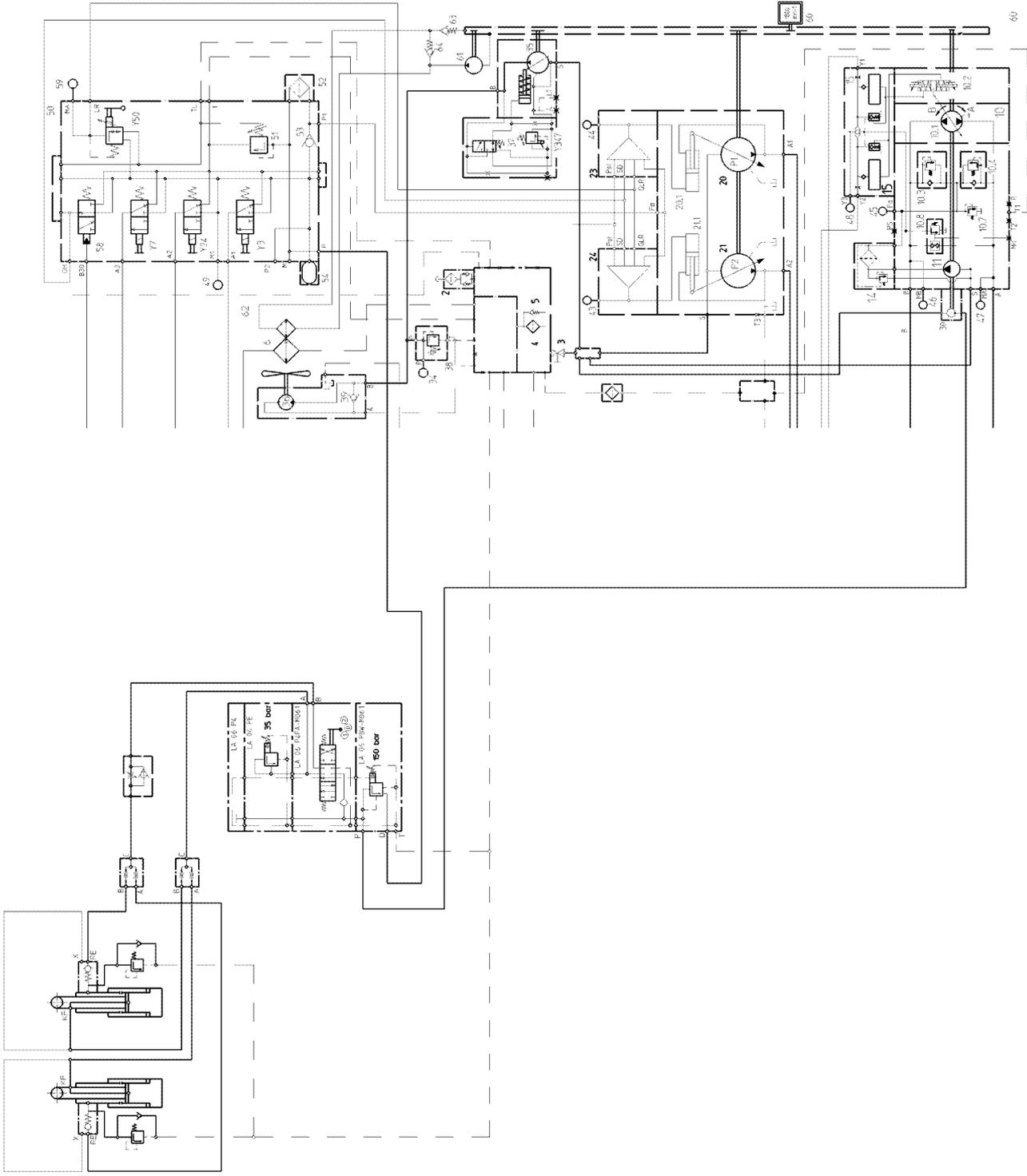
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81	Hornauslegergerät rechts	R1: Ausfahren R2: Stiel ausfahren R3: Ausleger Heben R4: Löffel ausfahren
82	Fußrollauslegergerät fahren links	F1: vorwärts F2: rückwärts
83	Fußrollauslegergerät fahren rechts	FR1: rückwärts FR2: vorwärts
84	Fußrollauslegergerät ausfahren links	F1L: Zylinder einziehen F1R: Zylinder ausziehen
85	Fußrollauslegergerät ausfahren rechts	FR1: Zylinder einziehen FR2: Zylinder ausziehen

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 HYDRAULIKSCHEMATA  
 SCHEMATA HYDRAULIQUE

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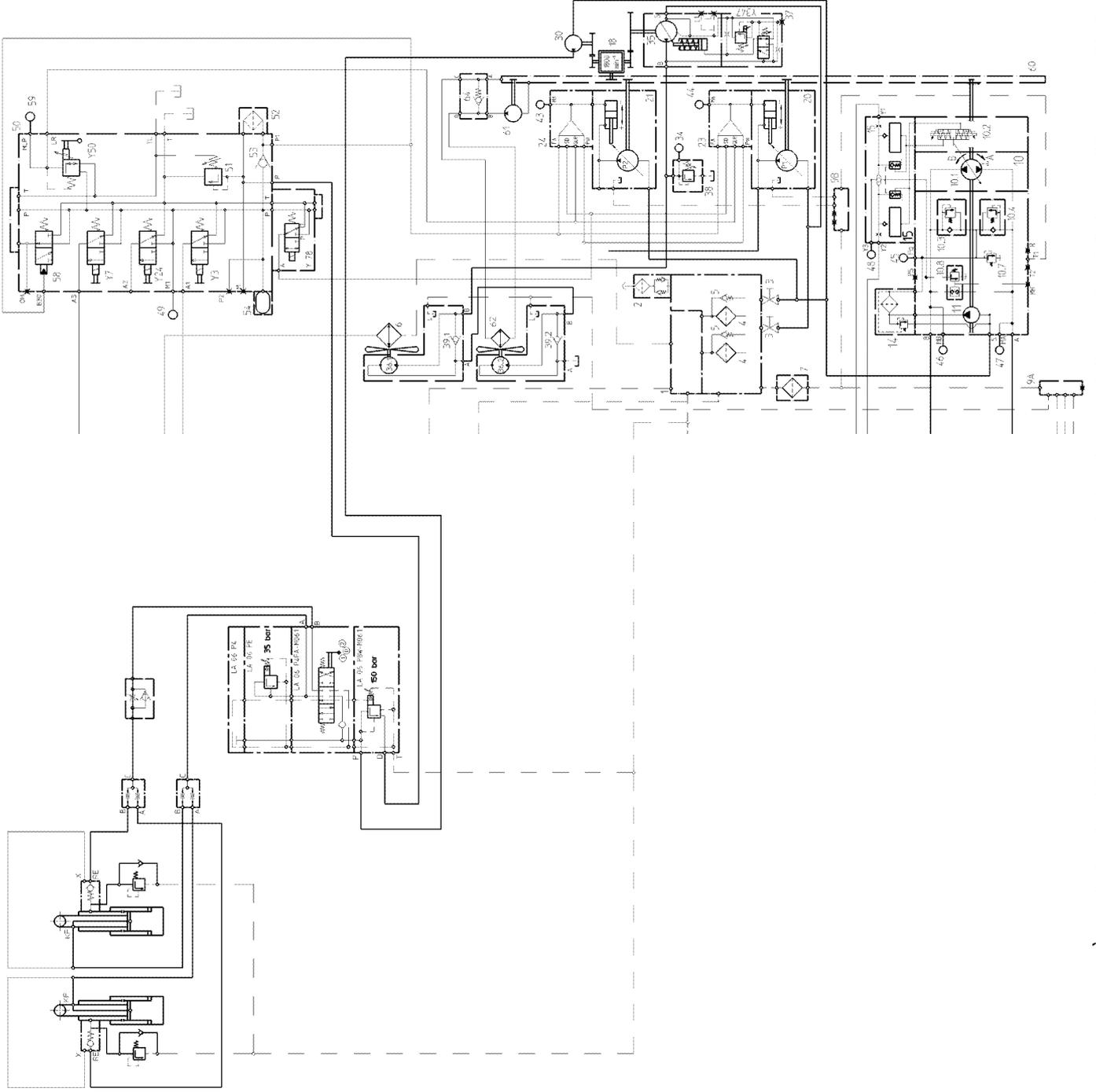


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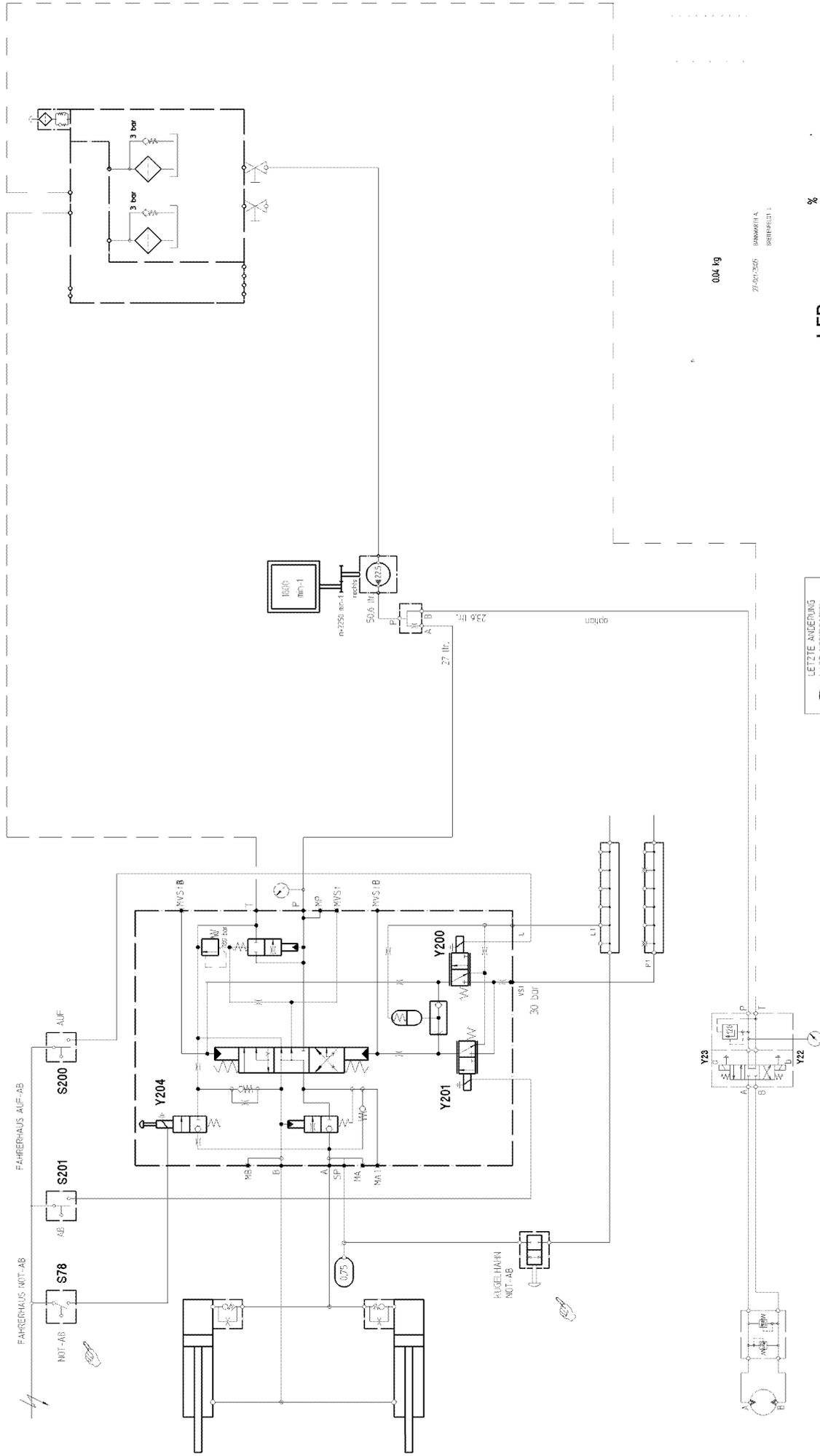
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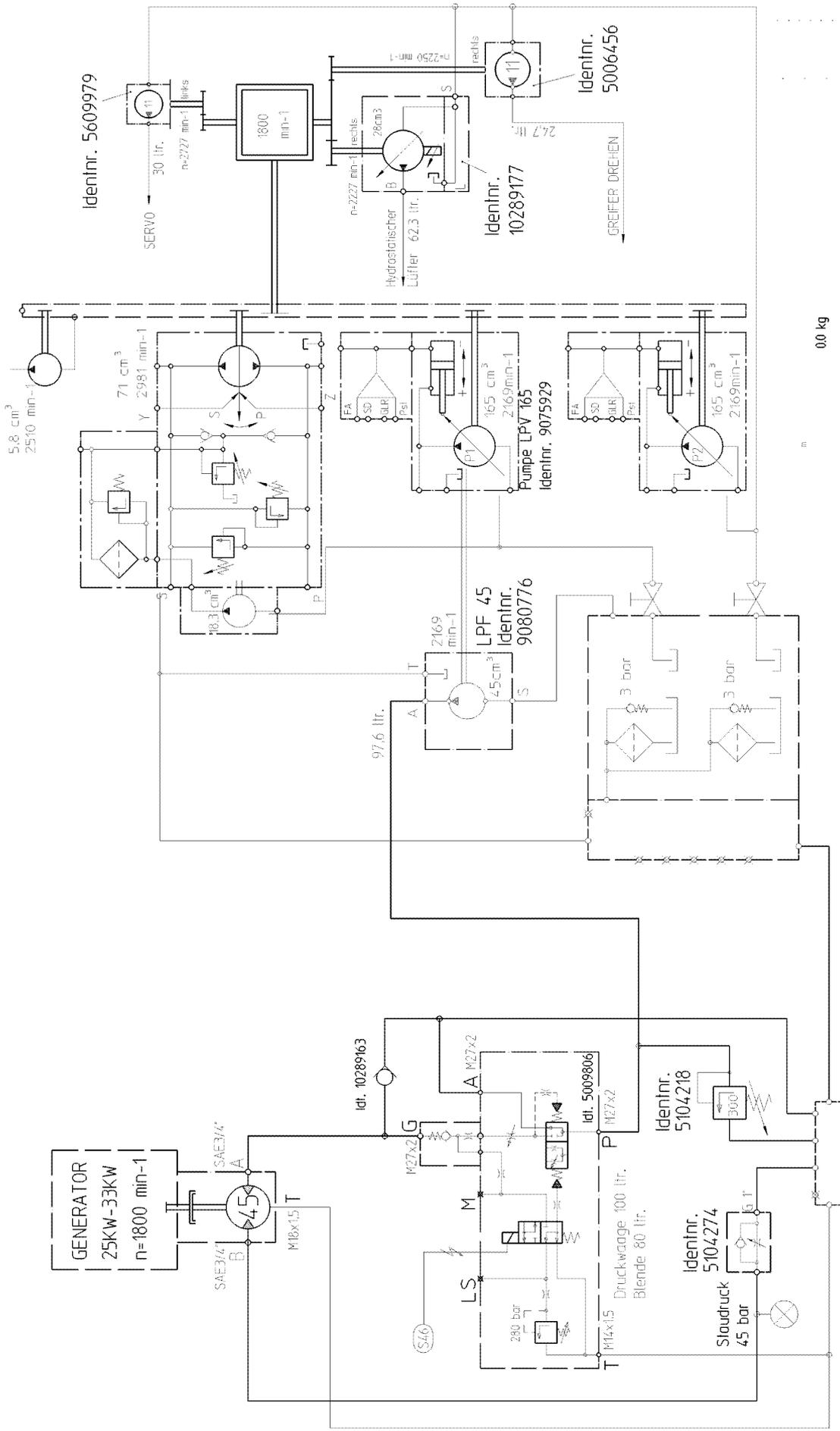
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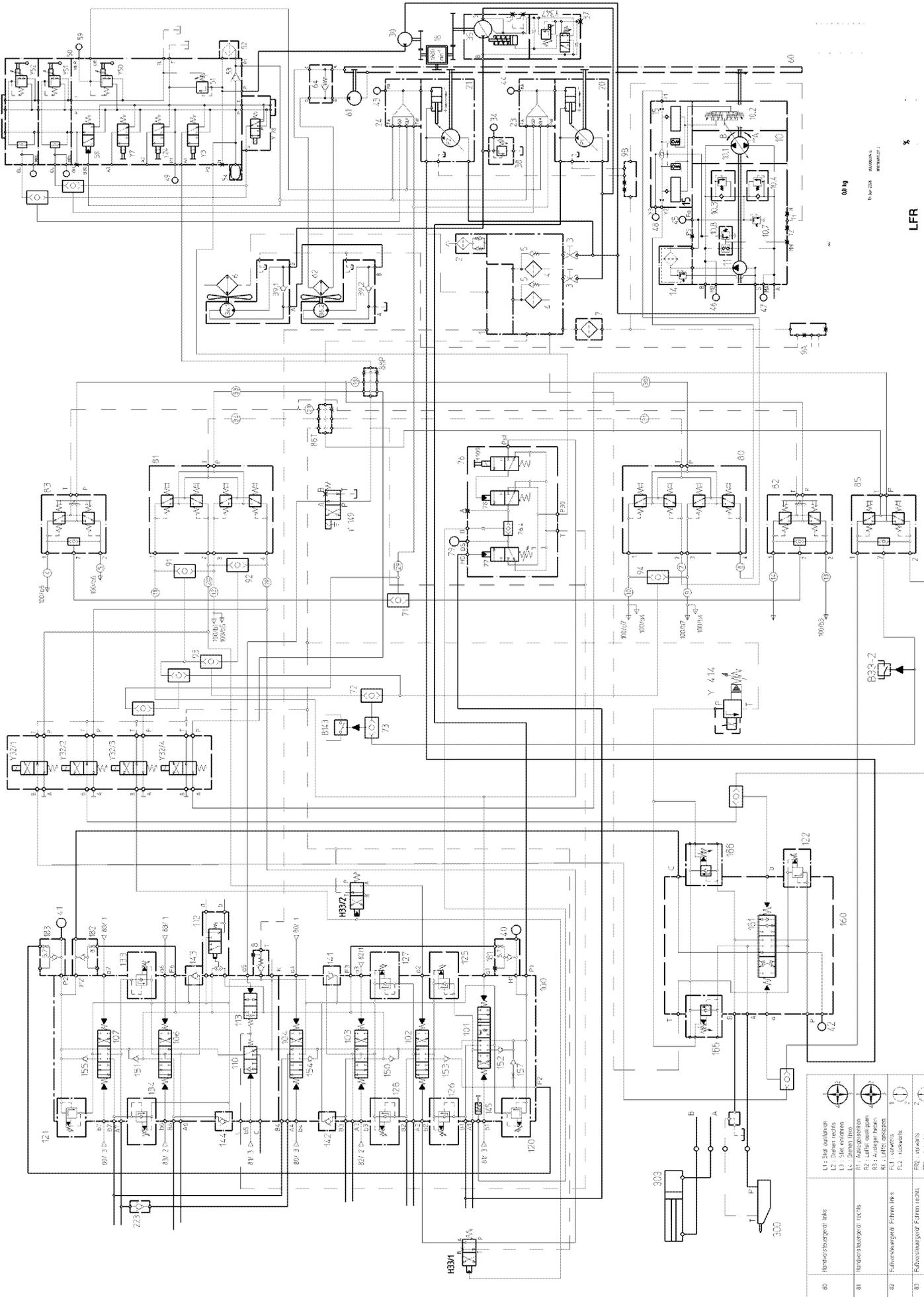
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80	Handsteuerung links	
81	Handsteuerung rechts	
82	Fußsteuerung Fahren links	
83	Fußsteuerung Fahren rechts	
85	Fußsteuerung lassen links	

U1: Bide bedienbar  
 L2: Dreien rechts  
 L3: Sile controlen  
 L4: Sile controlen  
 P1: Ausgabestellen  
 P2: Lärftig einstellen  
 P3: Anlagelassen  
 U1: Lärftig einstellen  
 P2: Lärftig einstellen  
 P3: Lärftig einstellen

Primärventile  
 Sekundärventile

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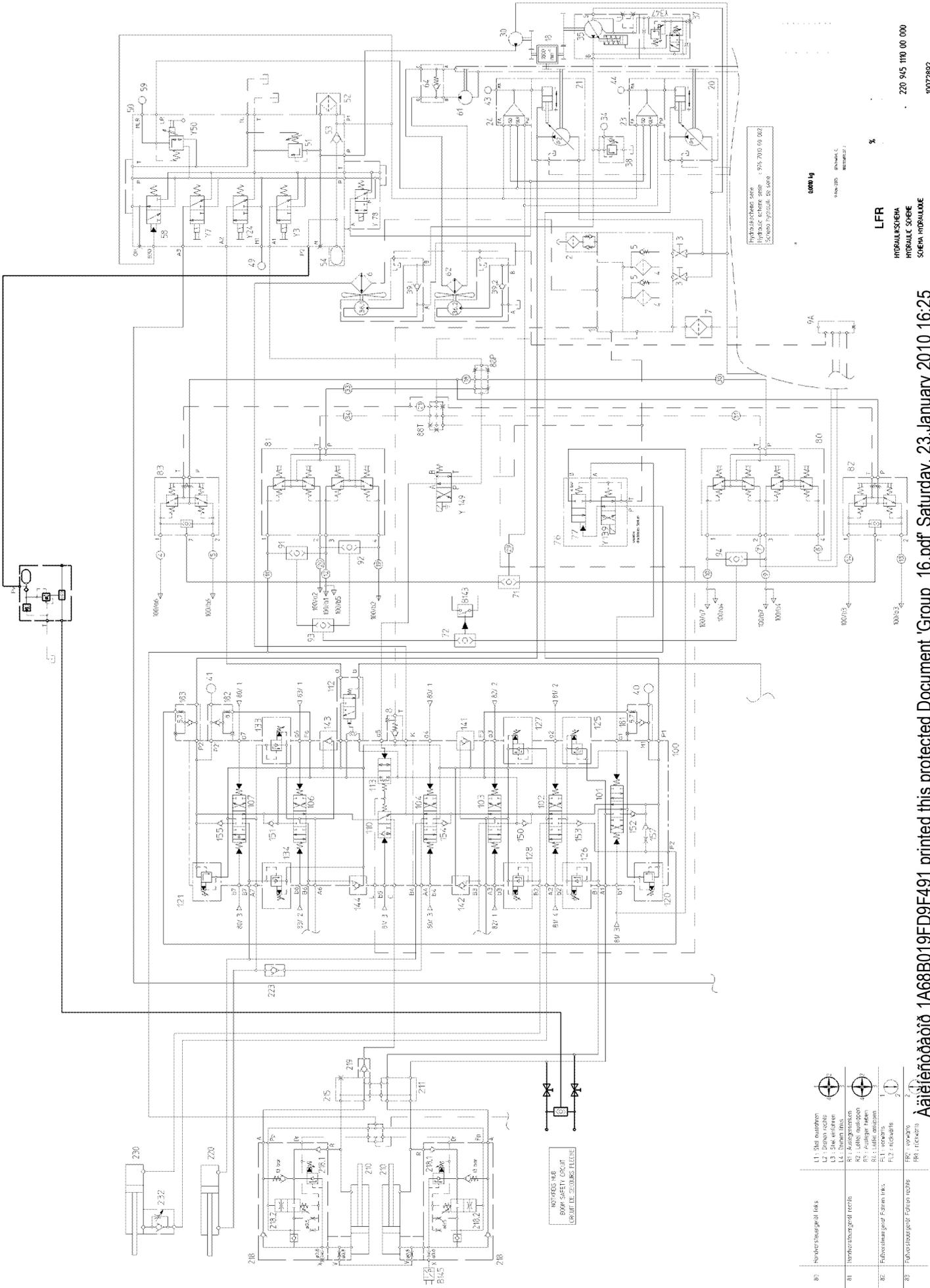
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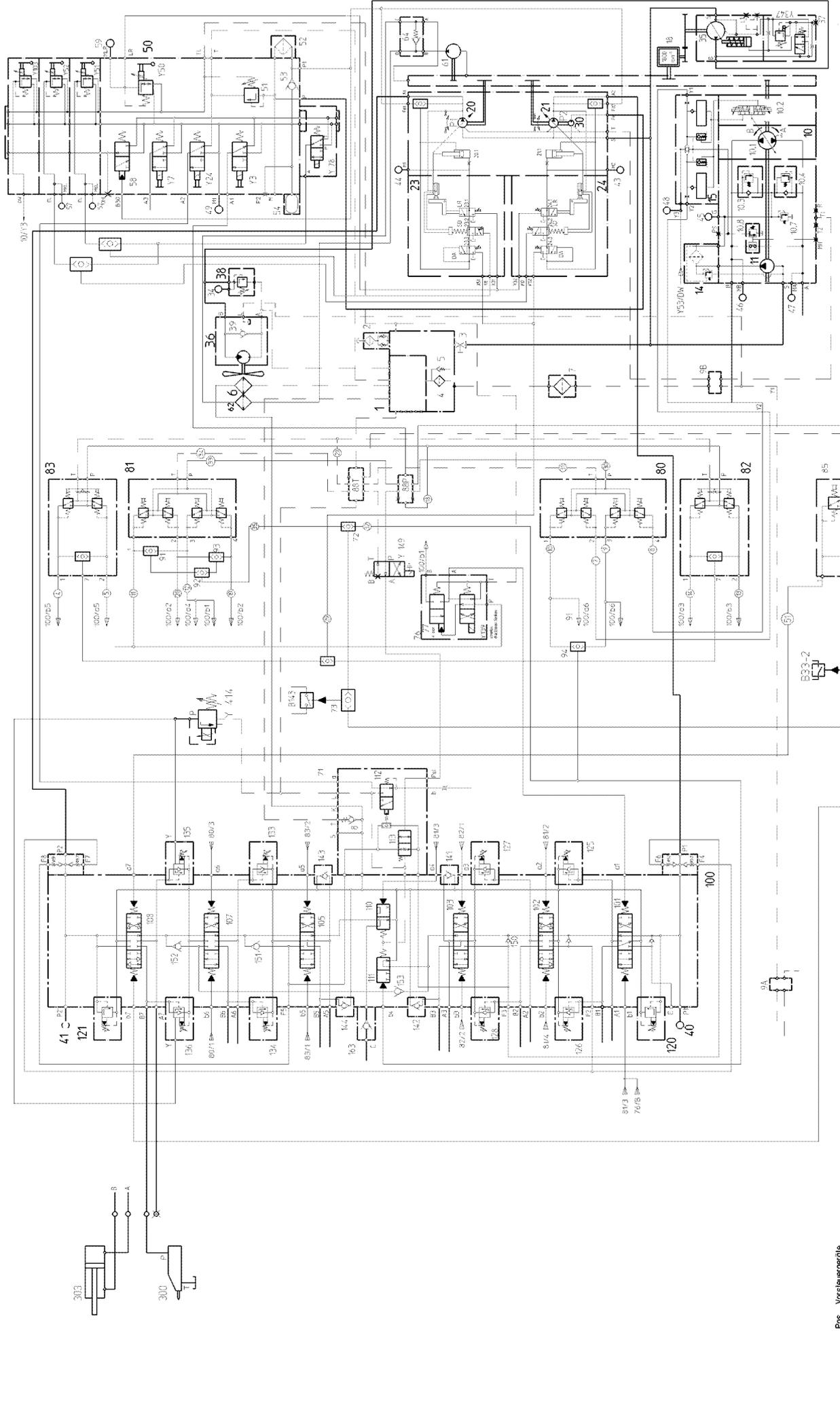
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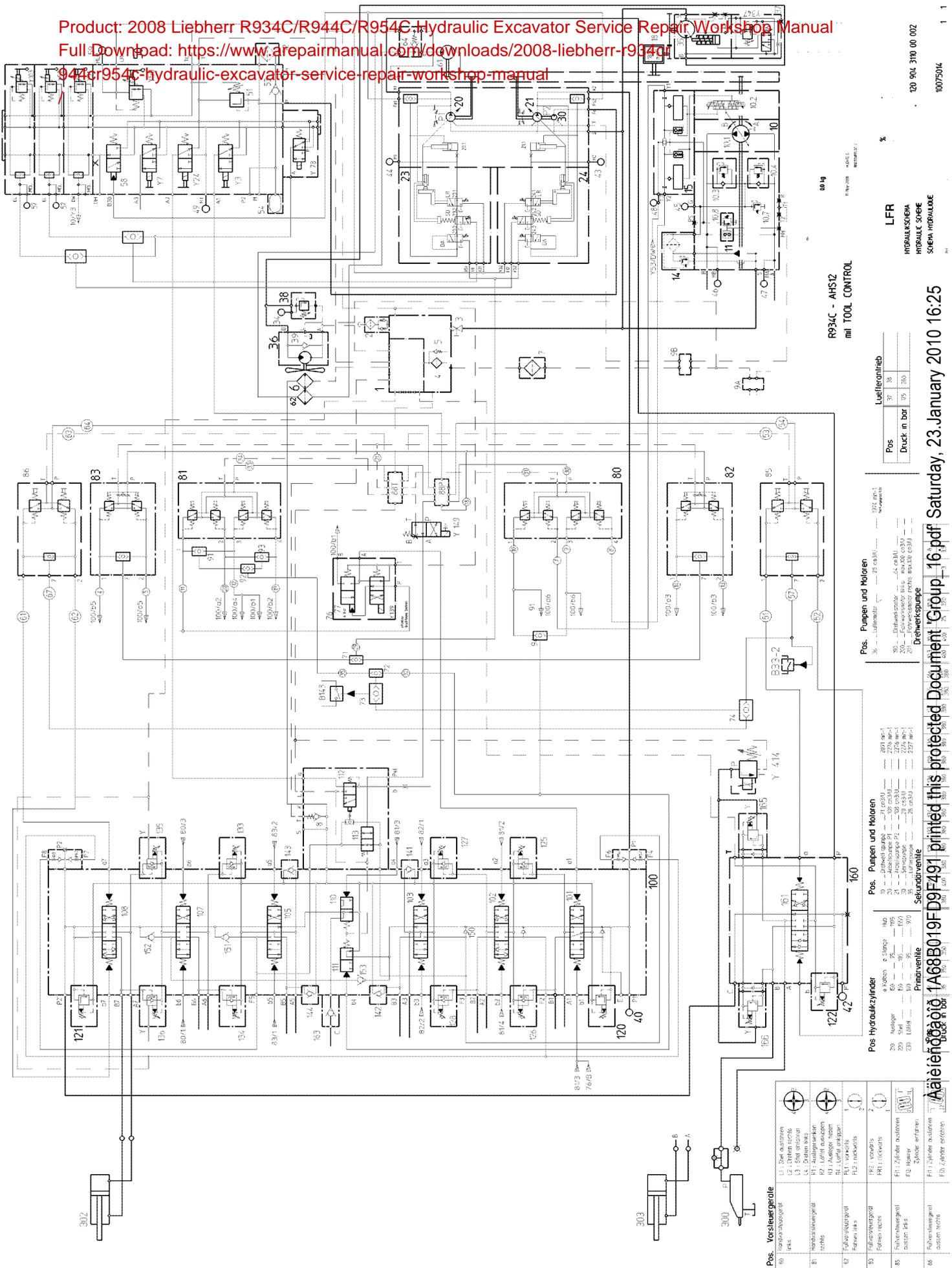


80	Non-rotary gear oil tank	
81	Hydraulic gear oil tank	
82	Filter/separator	
83	Flow control valve	



Pos.	Versteigergeräte	Primärventile	Pos. Hydraulizylinder	Pos. Pumpen und Motoren	Pos. Pumpen und Motoren	Pos. Drehwerkzeuge	Pos. Drehwerkzeuge
11	Soll anhalten		19	Drivescrape	271	271	271
12	Druck anhalten		20	Drivescrape	272	272	272
13	Soll weichen		21	Drivescrape	273	273	273
14	Druck weichen		22	Drivescrape	274	274	274
15	Druck anhalten		23	Drivescrape	275	275	275
16	Druck weichen		24	Drivescrape	276	276	276
17	Druck anhalten		25	Drivescrape	277	277	277
18	Druck weichen		26	Drivescrape	278	278	278
19	Führerstopfen		27	Drivescrape	279	279	279
20	Führerstopfen		28	Drivescrape	280	280	280
21	Führerstopfen		29	Drivescrape	281	281	281
22	Führerstopfen		30	Drivescrape	282	282	282
23	Führerstopfen		31	Drivescrape	283	283	283
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26	Führerstopfen		34	Drivescrape	286	286	286
27	Führerstopfen		35	Drivescrape	287	287	287
28	Führerstopfen		36	Drivescrape	288	288	288
29	Führerstopfen		37	Drivescrape	289	289	289
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37	Führerstopfen		45	Drivescrape	297	297	297
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39	Führerstopfen		47	Drivescrape	299	299	299
40	Führerstopfen		48	Drivescrape	300	300	300
41	Führerstopfen		49	Drivescrape	301	301	301
42	Führerstopfen		50	Drivescrape	302	302	302
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107	Führerstopfen		115	Drivescrape	367	367	367
108	Führerstopfen		116				





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mit TOOL CONTROL

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Pos	Luftleittrieb
37	38
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Pos.	Pumpen und Motoren	Drehwerkspumpe
38	100/02	100/02
39	100/04	100/04
75	100/05	100/05
30	100/06	100/06

Pos.	Pumpen und Motoren	Sekundärventile
101	100/03	100/03
102	100/04	100/04
103	100/05	100/05
104	100/06	100/06
105	100/07	100/07
106	100/08	100/08
107	100/09	100/09
108	100/10	100/10
109	100/11	100/11
110	100/12	100/12
111	100/13	100/13
112	100/14	100/14
113	100/15	100/15
114	100/16	100/16
115	100/17	100/17
116	100/18	100/18
117	100/19	100/19
118	100/20	100/20
119	100/21	100/21
120	100/22	100/22

Pos.	Hydraulikzylinder	Primärventile
29	100/15	100/15
30	100/16	100/16
31	100/17	100/17
32	100/18	100/18
33	100/19	100/19
34	100/20	100/20
35	100/21	100/21
36	100/22	100/22

Pos.	Vorsteuergeräte
80	100/01
81	100/02
82	100/03
83	100/04
84	100/05
85	100/06
86	100/07
87	100/08
88	100/09
89	100/10
90	100/11
91	100/12
92	100/13
93	100/14
94	100/15
95	100/16
96	100/17
97	100/18
98	100/19
99	100/20
100	100/21
101	100/22

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