SERVICE MANUAL
NEUSON

COMPACT EXCAVATOR

8002



Symbol picture

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7. TIGHTENING TORQUES

Tightening torque

for hydraulic joints and dry assembling

Metric hose joints for hydraulic assembling

Light version (DKOL)				
DN	RA	Screw	Tool	Torque
05	6L	M12x1,5	SW 14	15 Nm
06	8L	M14x1,5	SW 17	20 Nm
08	10L	M16x1,5	SW 19	40 Nm
10	12L	M18x1,5	SW 22	50 Nm
12	15L	M22x1,5	SW 27	75 Nm
16	18L	M26x1,5	SW 32	85 Nm
20	22L	M30x2	SW 36	100 Nm
25	28L	M36x2	SW 41	180 Nm
32	35L	M45x2	SW 55	220 Nm

Quelle: Fa. Schäfer

Heavy type (DKOS)				
DN	RA	Screw	Tool	Torque
05	8S	M16x1,5	SW 19	40 Nm
06	10S	M18x1,5	SW 22	50 Nm
08	12S	M20x1,5	SW 24	60 Nm
10	14S	M22x1,5	SW 27	75 Nm
12	16S	M24x1,5	SW 30	90 Nm
16	20S	M30x2	SW 36	100 Nm
20	25S	M36x2	SW 41	180 Nm
25	30S	M42x2	SW 50	270 Nm
32	38S	M52x2	SW 60	400 Nm

Quelle: Fa. Schäfer

Surface galvanic coated and dry (O-Ring oiled). Tolerance torque -10 %

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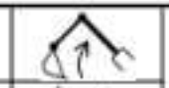
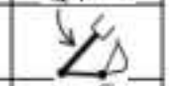
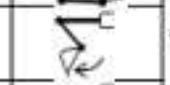
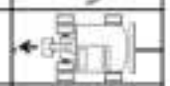
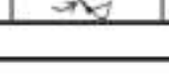
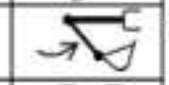
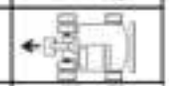
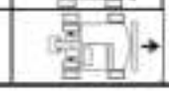
8002
NEUSON

Fabr.No.:	
Work hrs./Dat.	
Checked:	

PRESSURE
CHECK LIST
Neuson Excavators

No:
Hue00
Okt02

>> Explanation pressure check list Neuson 8002
PLV... Pressure limiting valve
PRV... Pressure reducing valve
(1)... Notice: **pressure settings correspond with the Fabr.Nr. of your excavator !**
Please, always compare with the pressure setting in chapter „Technical data" !
(2)... Notice: Setting only correct without secondary pressure limiting valves !
(3)... FunctionSwivel: see chapter „Technical data" and „Maintenance"
(4)... See chapt. „Technical data" version 7006490, 7006501 - different settings

Function	Motion	Symbol	Press. Limit. Valve	Measuring port	Settings (1)					Checked:	OK?	
PUMP 1											X	
					SEE CHAPTER - TECHNICAL DATA - HYDRAULIC							
Boom	UP		Primary pressure limiting valve PPLV 1 (Main valve block)	Measuring port MP 1 (Hydraulic pump)	Setting:	300	bar	+/- 5	>			Note:
	DOWN				Fall:	30	bar		>			
Bucket	OUT				Setting:	300	bar	+/- 5	>			
	IN				Fall:	30	bar		>			
Drive right	FORWARD				Setting:	300	bar	+/- 5	>			
	BACKWARD				Fall:	30	bar		>			
Dipper stick	OUT		Summation press. (not adjustable)		Setting:	300	bar	+/- 5	>			
	IN				Fall:	30	bar		>			
					Setting	80-100	bar	+/- 5	>			
					Setting	300	bar	+/- 5	>			
PUMP 2											X	
					SEE CHAPTER - TECHNICAL DATA - HYDRAULIC							
Dipper stick	OUT		Primary pressure limiting valve PPLV 1 (Main valve block)	Measuring port MP 2 (Hydraulic pump)	Setting:	300	bar	+/- 5	>			Note:
	IN				Fall:	30	bar		>			
Drive left	FORWARD				Setting:	300	bar	+/- 5	>			
	BACKWARD				Fall:	30	bar		>			
					Setting:	300	bar	+/- 5	>			
					Fall:	30	bar		>			

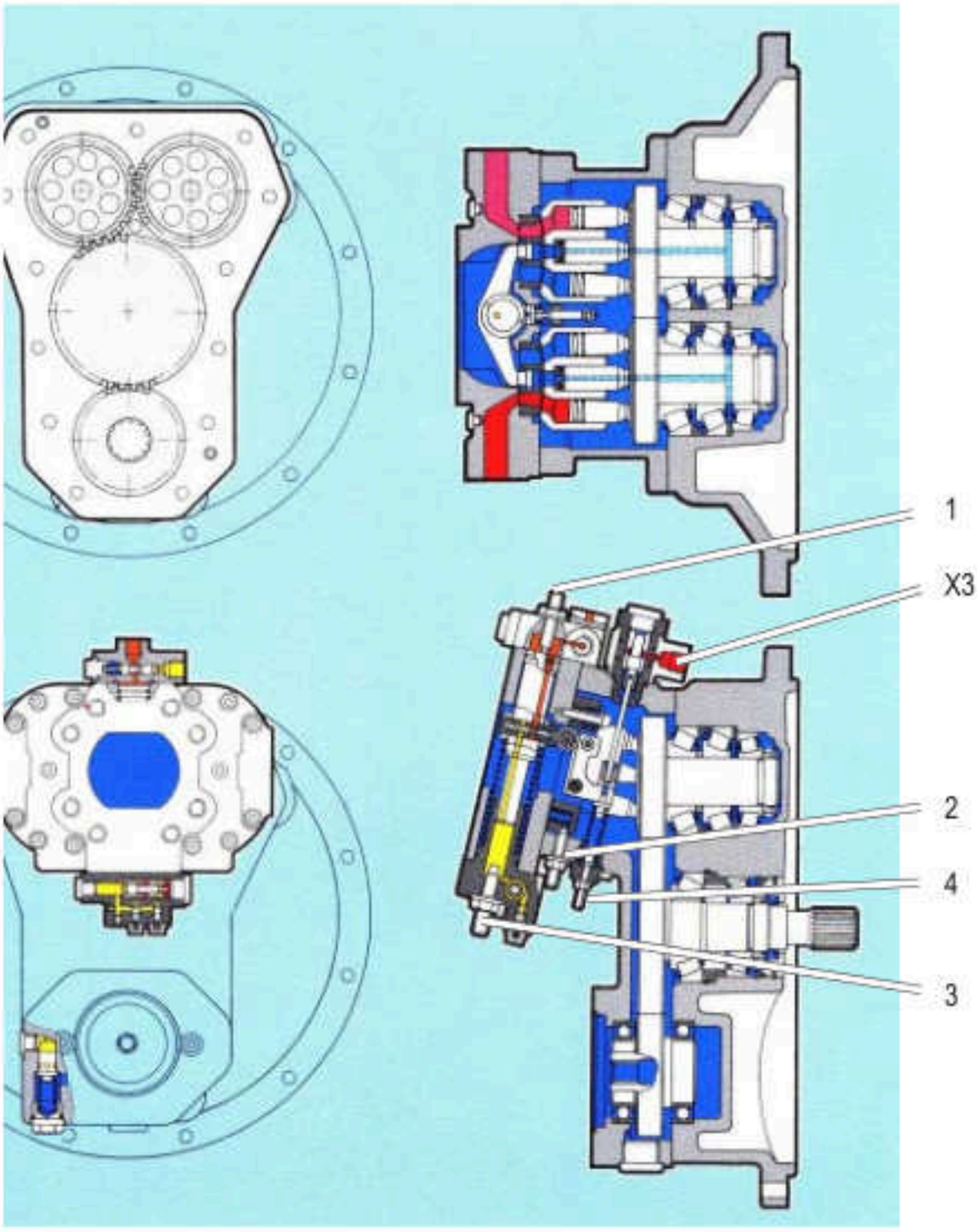
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Legend Hydraulic diagram 8002 - 3rd hydraulic circuit (7011094, 7011100, 7011111)

1 diesel engine
2 gear pump (P3)
3 variable displacement (P1+P2)
4 pilot oil supply unit
5 main valve block
6 secondary valve block 2 with an additional section
7 joystick left (pilot control valve)
8 joystick right (pilot control valve)
9 pilot control valves - Function drive
10 pilot control valve - Function auxiliary hydraulic / boom offset cylinder
11 pilot control valve - Function dozer blade
12 switch valve - Function auxiliary hydraulics electr. / 3rd hydraulics circuit (7011094)
13 switch valve - Function boom offset / triple boom (7011100, 7011111)
14 hydraulic oil cooler
15 hydraulic oil return filter
16 swivel unit (uppercarriage)
17 drive unit
18 boom offset cylinder
19 dipper stick cylinder
20 boom cylinder left
21 boom cylinder right
22 bucket cylinder
23 dozer blade cylinder
25 check valve block - boom offset cylinder
26 check valve block - triple boom cylinder (7011100, 7011111)
27 triple boom cylinder

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Description to pict.: functions of the controller screws hydraulic pump 7008303



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5. MAIN VALVE BLOCK Option: **Shock valves** AH

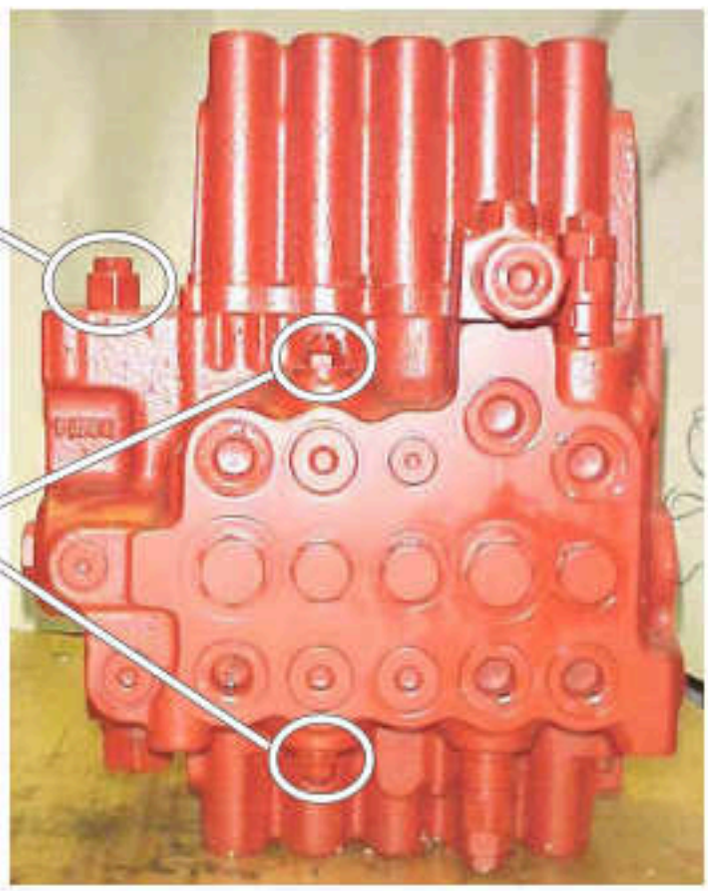
Features:

- **Pressure shock limiting of the consumers - auxiliary hydr. system** (Section AH) - a.ex.: Hydraulic braker
- The consumers, the pump and the valve block is protected by the primary pressure limiting valve if the spool auxiliary hydraulics is „open" .
  If the spool is not piloted - the system between the valve and the consumer is not protected in case of shocks.
- See also - SNews **36**/00 - terms for setting the pressure in the auxiliary hydr. system
- Setting without secondary pressure limiting valves (shock valves) see chapter. technical datas

Assembling:

- The pressure setting and assembling has to be done by autorized Neuson trained persons only. Always both plugs must be changed to shock valves for modification.

Pict.: Standard version section auxiliary hydraulics - plugs (view C)



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