BEREICH: KABINENUNTERBODEN

SCHALTKASTEN

X1/X2/F
IN
OUT
CAN

X1/X2/F
IN
OUT
CAN

X6

X9

BEREICH: SITZKONSOLE RECHTS

X170

X52

R11
POTI SOLLWERT
DREHZAHL

A4
ANZEIGEFELD
BEDIENFELD

(EXTRA)

BEREICH: SITZKONSOLE RECHTS

S3
ZUENDSTARTSCHALTER

S4
SCHALTER
WARNBLINKANLAGE

S26
TASTER
HEIZUNG
SEITENSCHEIBE

S5
TASTER
VORWAHL
PRATZEN

X78
ZIGARETTENANZŠNDER

S9
GREIFER
LINKS

S10
DREHEN
RECHTS

S11
KICK-DOWN

S12
FAHREN
VORWŽRTS
RŠCKWŽRTS

STEUERHEBEL RECHTS

X51

X174

RESERVE

(EXTRA)

KABEL MIT DER NR.Q2 HABEN EINEN QUERSCHNITT VON 0,50mm2
KABEL MIT DER NR.Q3 HABEN EINEN QUERSCHNITT VON 0,75mm2
KABEL MIT DER NR.Q4 HABEN EINEN QUERSCHNITT VON 1,00mm2
KABEL OHNE NR.Q HABEN EINEN QUERSCHNITT VON 1,50mm2
KABEL MIT DER NR.Q6 HABEN EINEN QUERSCHNITT VON 2,50mm2

KABEL MIT DER NR.Q 7 HABEN EINEN QUERSCHNITT VON 4,00mm2
KABEL MIT DER NR.Q 9 HABEN EINEN QUERSCHNITT VON 6,00mm2
KABEL MIT DER NR.Q 10 HABEN EINEN QUERSCHNITT VON 10,00mm2
KABEL MIT DER NR.Q12 HABEN EINEN QUERSCHNITT VON 25,00mm2
KABEL MIT DER NR.Q15 HABEN EINEN QUERSCHNITT VON 50,00mm2

Gezeichnet m.CAD
Datum 15.11.00
Bearb. S. Bross
Gepr.
Datum 07.01.2003

ATLAS-TEREX GMBH
Postfach 1844
D-27747 Delmenhorst

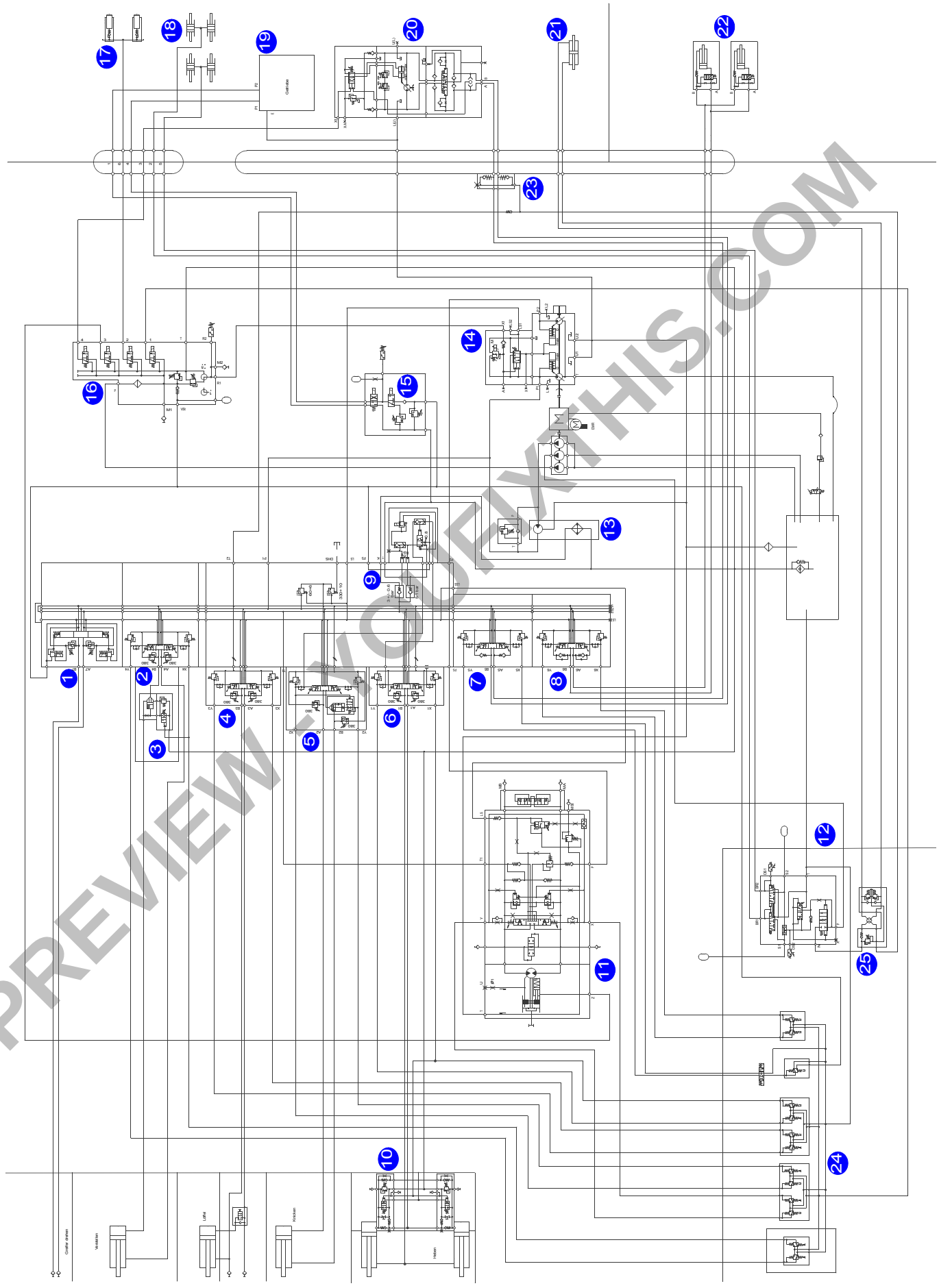
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BAUSCHALTPLAN 4

7800.715.10.11/000

Blatt 5
11 BL

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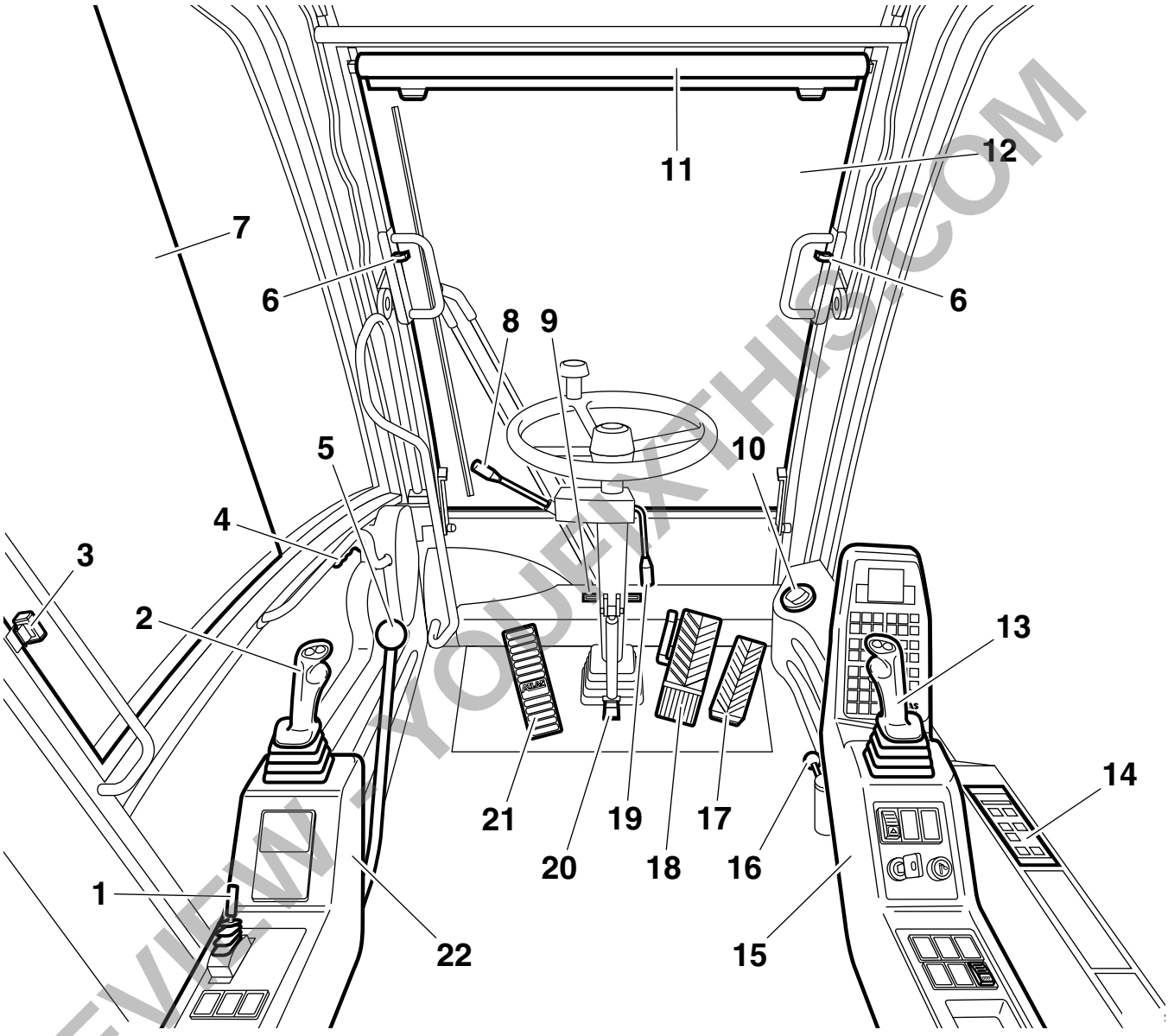


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Display and Controls

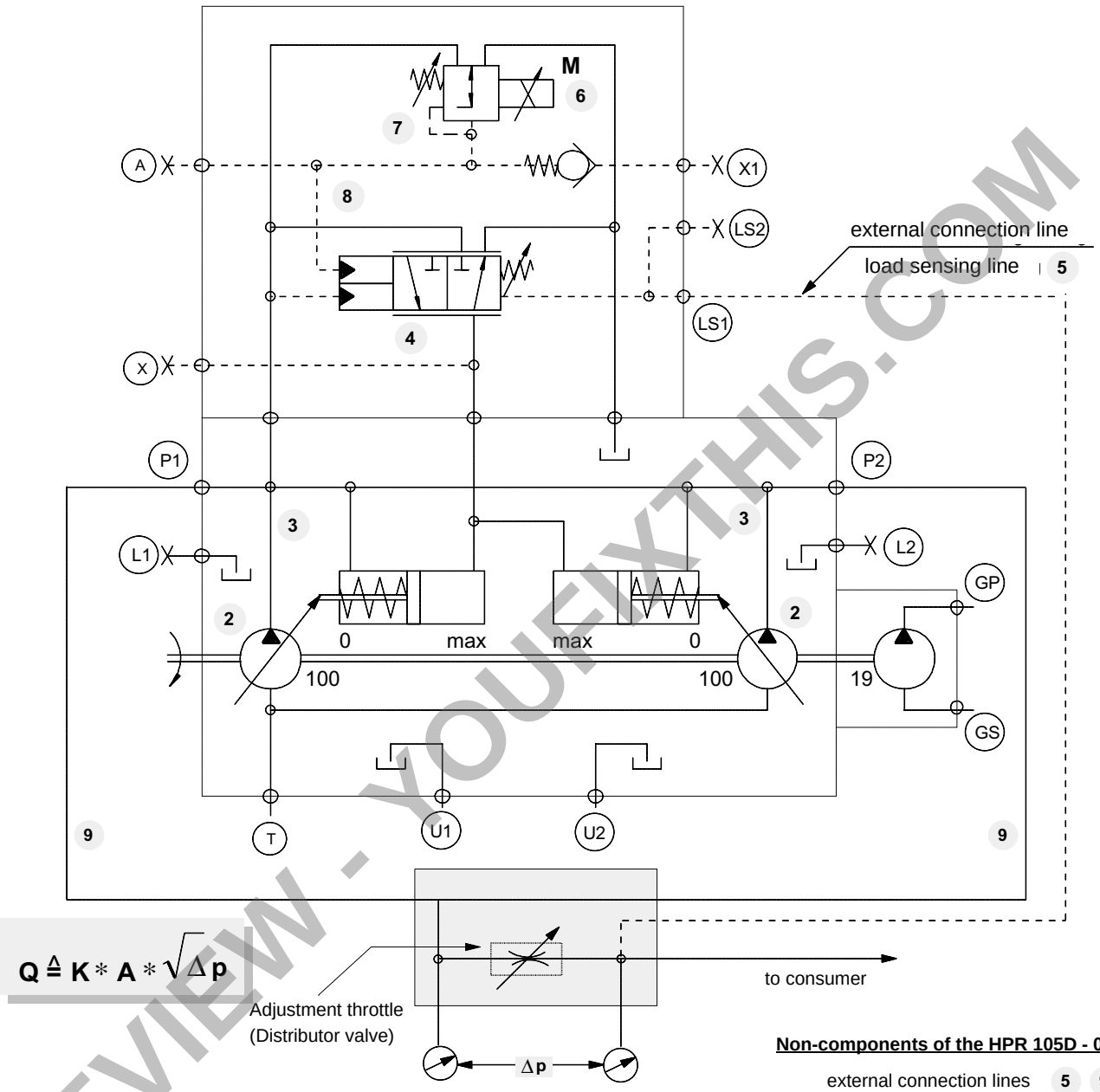
General view of cab



1 Lever for dozer blade/support pads
2 Control lever for folding jib and slewing
3 Slider, side window
4 Lever for cab door
5 Lever for pilot control
6 Windshield locking rods left/right
7 Side window
8 Multifunction lever
9 Windshield vent outlet
10 Side window vent outlet
11 Sun visor
12 Windshield
13 Control lever for lifting/lowering, bucket/grab
14 Control panel air conditioning
15 Right console with switch panels
16 Superstructure slewing lock
17 Accelerator pedal
18 Brake pedal with lock
19 Lever for adjusting height of steering column
20 Foot lever for adjusting angle of steering column
21 Boom adjusting pedal
22 Left console with switch panel

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Circuit Diagram



Non-components of the HPR 105D - 02:

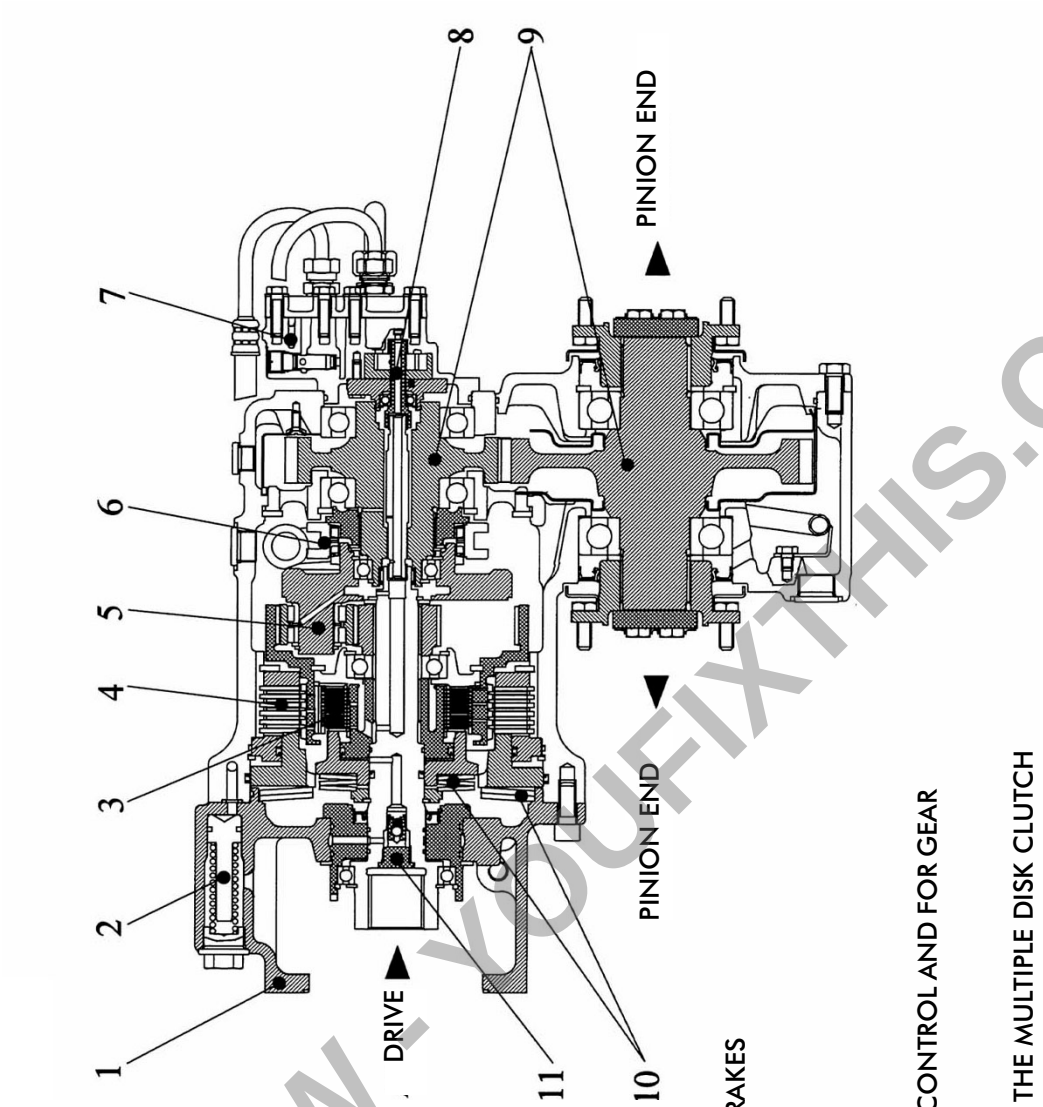
external connection lines 5 9

Adjustment throttle (Control valve) 1

EXPLANATIONS:

P1 P2	High pressure connections pump, SAE
T	Suction connection, SAE
X1	Control pressure connection for emergency activation (max. 30 bar) M14 x 1.5
A	Measurement connection control pressure M14 x 1.5
LS1 LS2	Load Sensing Connection 2x M14 x 1.5
X	Measurement connection control pressure M14 x 1.5
U1 U2	Leak oil connections Connection in such a way that the interior is filled with oil.
L1 L2	Leak oil connections Connection in such a way that the interior is filled with oil.
GP	Pressure connection gear pump
GS	Suction connection gear pump

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1 = HYDRAULIC MOTOR CONSTRUCTION
2 = STORAGE FOR CUT-OFF PRESSURE MULTIPLE DISK BRAKES
3 = MULTIPLE DISK CLUTCH
4 = MULTIPLE DISK BRAKE
5 = PLANETARY DRIVE
6 = CUT-OFF DEVICE
7 = SWITCH CONTROL
8 = ROTOR PUMP FOR THE CONTROL PRESSURE SWITCH CONTROL AND FOR GEAR LUBRICATION
9 = SPUR PINION
10 = DISK SPRINGS FOR THE MULTIPLE DISK BRAKE AND THE MULTIPLE DISK CLUTCH
11 = CHOKER VALVE

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Setting of valves BF6M 1013FC

Valve free-play

Too much or too little valve free-play may lead to engine damage as a result of mechanical and thermal overload. It must therefore be verified at recommended intervals - see Operating Manual - and readjusted when necessary.

The valve free-play shall be verified and adjusted at an oil temperature of <80 °C. Values for the engines BFM 1012/1013:

Inlet valve = 0.3 mm
Outlet valve = 0.5 mm

After initial assembly or after replacement of the cylinder-head gasket

Inlet valve = 0.4 mm
Outlet valve = 0,6 mm

The respective feeler gage must be capable of being pushed between the rocker-arm cog and the valve with little resistance.

If the gap is too wide or too tight for the feeler gage, the free-play must be re-adjusted:

- For the re-adjustment loose the counter-nut 1 with the spanner by 2 - 3 turns.
- Regulate the adjusting screw with the hexagon socket screw key in such a way that the feeler gage can be pushed in and drawn out with less resistance while the counter-nut is tightened.

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Fault detection

Display presentation EMR control system

Supplied voltage:

If the voltage supplied to the EMR is too low, the control lamp 27 flashes (fault) and the following text appears on the display.

Monitor-view:

```
No. 400          99 of 99

Fault EMR

    Voltage too low

-The input voltage
  of the EMR is too
  low.

1. Fault on 01.01.98
 Time12:12   Hour99999
 X.Fault on 01.01.98
 Time12:12   Hour99999
```

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Pressure Table AB 1805

* Check or adjust at max. engine speed
** Check or adjust at an engine speed of approx. 1400 min^{-1}
*** Check using hand pump
(hydraulic fluid temperature from 40 to 60 ° C.)

		Value		Unit
	Engine Speeds			
	min. idling speeds	1030	-30	min^{-1}
	max. idling speeds	2050		min^{-1}
	Nominal speed	2000		min^{-1}
	Primary valves			
**	Pressure relief valve, pump	50-60		bar
*	Pressure clipper	350	+10	bar
*	Pressure cut-in stage	380		bar
**	Pilot control pump	30-35		bar
*	Pressure relief valve, emergency stop	14		bar
*	Fan pump	85		bar
*	Steering pump	175	+5	bar
	Line protecting controller (Delta P)			
*	Pump	25	+/-1	bar
*	Precision control - potentiometer	10-23		bar
*	Limit load control valve (plus tank preload pressure)	8,5	+/-0,2	bar
	Secondary valves			
	Lifting cylinder - Lifting - Leak oil free shut-off - RBS			
**	- Section	380	+25	bar
**	- with pressure cut-in stage	420	-30	bar
**	- Lowering	380	+25	bar
**	Folding cylinder (retract and withdraw)	380	+25	bar
**	Folding cylinder for I-booms	380	-10	bar
**	Bucket, grab cylinder	380	+25	bar
**	Slewing motor	50/250	+10/+20	bar
*	- TC - plate	240	+/-5	bar
**	Drive motor - mobile	420	+25	bar

Subject to modifications

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Maintenance

Filling capacities

		in litres[1)]
Swing-axle differential	Undercarriage width 2 500 mm	11.0
	Undercarriage width 2 750 mm	12.0
Rigid-axle differential	Undercarriage width 2 500 mm	15.0
	Undercarriage width 2 750 mm	16.0
Each planetary gear set		4.0
Powershift gearbox		3.8
Engine (Quantity for oil changes with filter renewal)	BF4M 1013 EC	10.0
	BF6M 2012 EC	14.0
Cooling system		22.0
Hydraulic fluid tank		220.0
Fuel tank		400.0

1) These are approximate values; always observe the levels shown on the dipstick, in the sight glass, etc.

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1 Displays and controls

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Air conditioner system 920163 with control element 810020

Use

The **heating air conditioner 920163** was designed specifically for the purpose of conditioning the air of the driver cabin of the Atlas Excavator Generation 05.

Technical Data

Heating air conditioner 920 056

thermal output	: 13 kW
Refrigerating capacity	: 5 kW
Refrigerant	: R134a
Nominal voltage	: 24 V
Power reception	: 14 A max.
Operating voltage	: 24V (20....28V)
Operating over-pressure	: 1.5 / 30 bar
Air current max.	: 1050 m^3/h (blowing freely)
Fan	: has 4 levels

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