Service Manual

Track excavator

1404



Machine model	**1404**
Edition	**1.1**
Language	**English**
Item no.	**1000166693**

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2.12 Dimensions model 1404

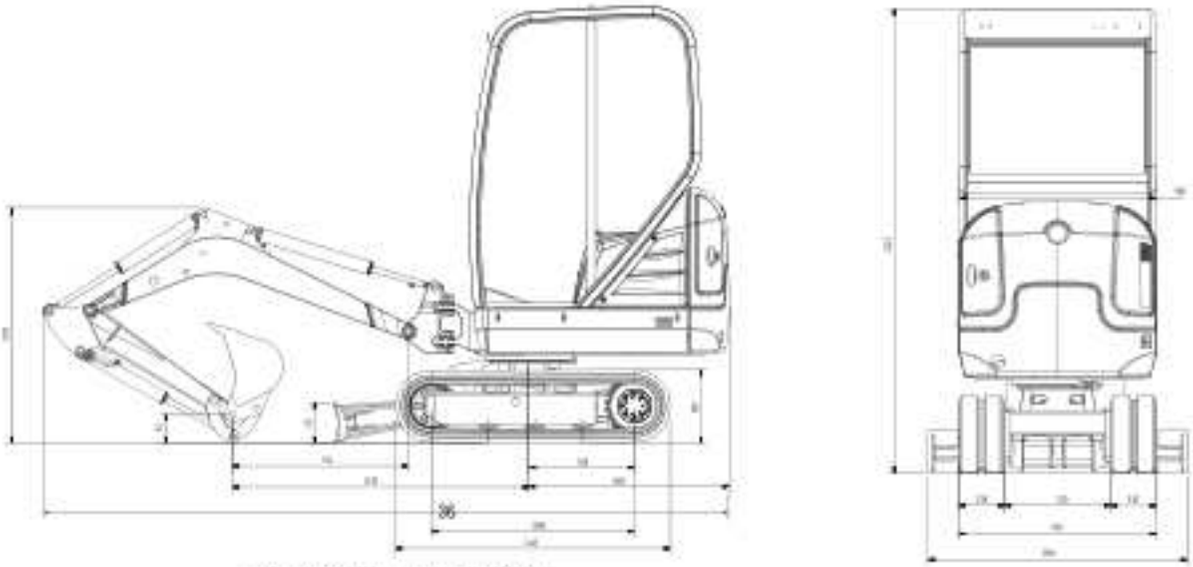


Fig. 2: Machine dimensions (model 1404)



Main data	Model 1404
Transport weight canopy/cab (option)	1325 / 1450 kg (2921 / 3197 lbs)
Transport weight with telescopic undercarriage canopy/cab (option)	1390 / 1515 kg (3064 / 3340 lbs)
Height (transport position) for standard/telescopic undercarriage	2285 / 2317 mm (7'6" / 7'7")
Width for standard undercarriage/extended telescopic undercarriage	990 / 1298 mm (3'3" / 4'3")
Transport length for short stick and standard/telescopic undercarriage	3644 / 3648 mm (11'11" / 11'11"))
Transport length for long stick and standard/telescopic undercarriage (option)	3607 / 3606 mm (11'10" / 11'10")
Max. digging depth with standard/telescopic undercarriage	2413 / 2372 mm (7'11" / 7'9")
Stick length (standard)	940 mm (3'1")
Long stick length (option)	1100 mm (3'7")
Max. vertical digging depth with standard/telescopic undercarriage	1802 / 1764 mm (5'11" / 5'9")
Max. digging height with standard/telescopic undercarriage	3508 / 3529 mm (11'6" / 11'7")
Max. dump height with standard/telescopic undercarriage	2371 / 2396 mm (7'9" / 7'10")
Max. digging radius with standard/telescopic undercarriage	3861 / 3860 mm (12'8" / 12'8")
Max. reach at ground level with standard/telescopic undercarriage	3648 / 3642 mm (11'11" / 11'11")
Max. breakout force at bucket tooth	14.2 kN (3192 lbf)
Max. tearout force	7.1 kN (1596 lbf)
Min. tail end slewing radius	1075 mm (3'6")
Max. tail end lateral projection (90° rotation of upper carriage)	580 mm (1'11")
Max. boom displacement to bucket centre (right-hand side)	432 mm (1'5")
Max. boom displacement to bucket centre (left-hand side)	287 mm (0'11")

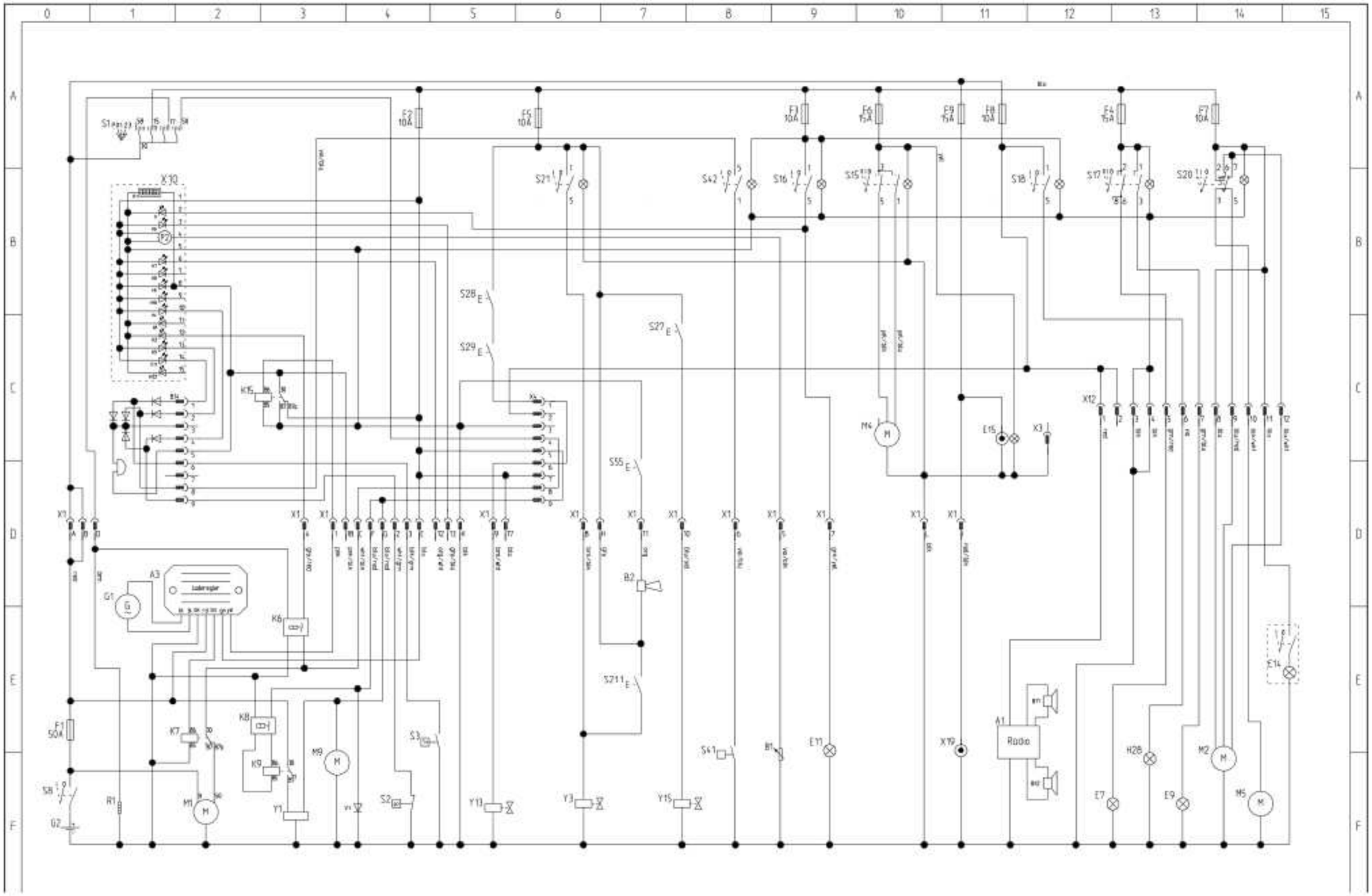
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5.10 Troubleshooting in the hydraulic system

Problem	Possible causes
Hydraulic system without function	Defective safety switch on control lever base
	Wrong setting of safety switch on control lever base
	Defective solenoid valve on pilot oil supply unit
	Contaminated solenoid valve on pilot oil supply unit
	Hydraulic oil level too low
	Defective valve fuses
	Defective/interrupted plug and socket connection towards solenoid valve
Hydraulic hammer does not work correctly	Quickhitch couplings not connected correctly
	Hydraulic oil quantity too high/too low
	Hydraulic oil pressure too high/too low

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6.17 Wiring diagram A3 1404 RD



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5.2 Main valve block SX 10

Ports



Rotate

Stick

Swivel

Boom

Bucket

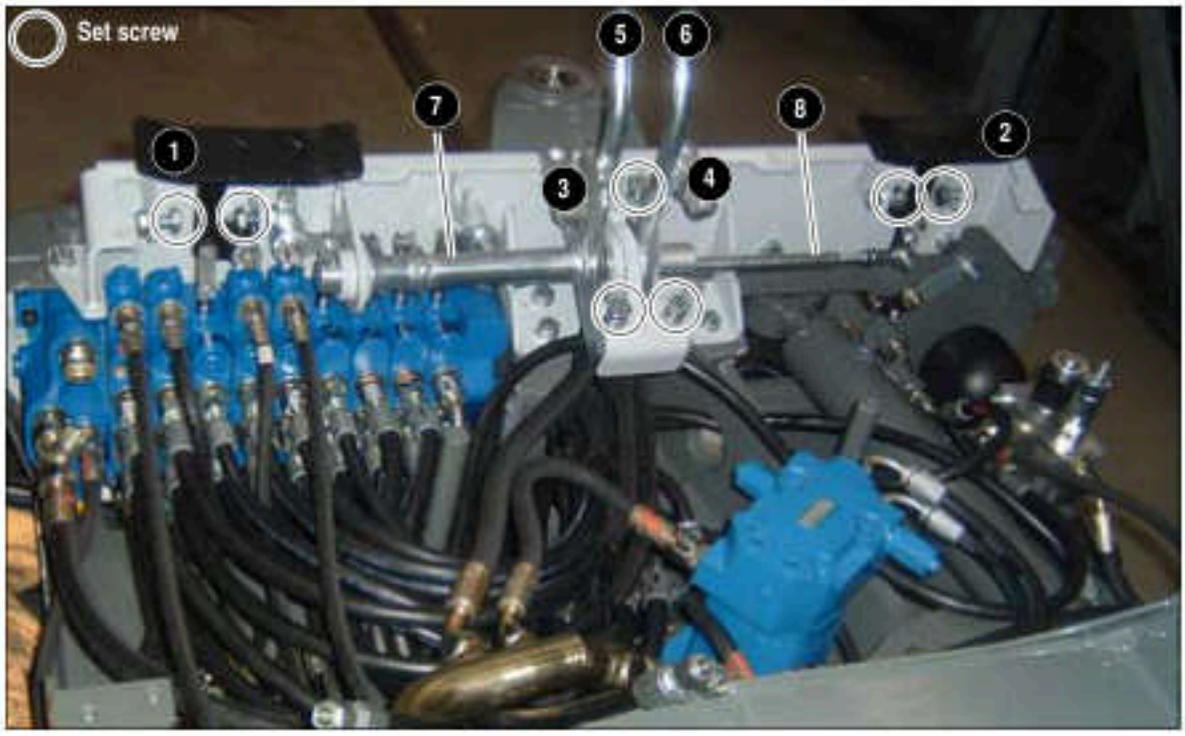
Stabiliser blade/telescoping ram

Right-hand side drive

Left-hand side drive

Auxiliary hydraulics

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Pos.	Description	Pos.	Description
1	Hammer pedal for slewing	2	Hammer pedal (auxiliary hydraulics)
3	Drive pedal (left)	4	Drive pedal (right)
5	Drive lever (left)	6	Drive lever (right)
7	Control shaft	8	Steering rod

A set screw (see drive pedal) **4** is located underneath drive pedal **3**

Adjusting the stabiliser blade/telescopic undercarriage lever

- *Push or pull the lever as far as it will go in order to actuate the piston in the main valve block to the limit. Unscrew set screw* **A** *if it limits the lever stop.*
- *Screw in set screw* **A** *as far as it will go with the lever pushed.*
- *Then unscrew screw* **A** *again by half a revolution (stop tolerance).*
- *Fasten set screw* **A** *with a locknut*
- *Check the controls respond correctly*

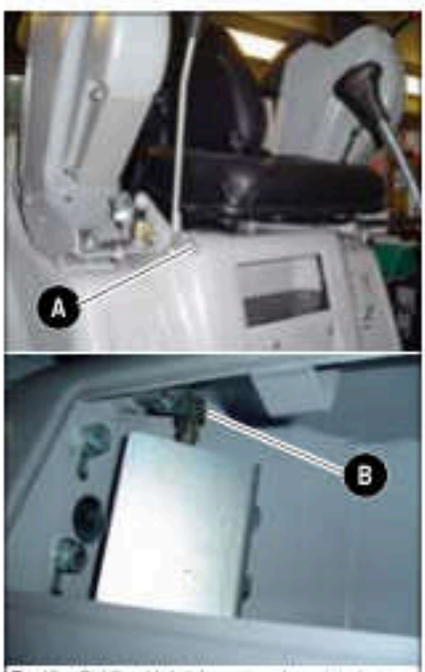


Fig. 12: Stabiliser blade/telescopic undercarriage lever

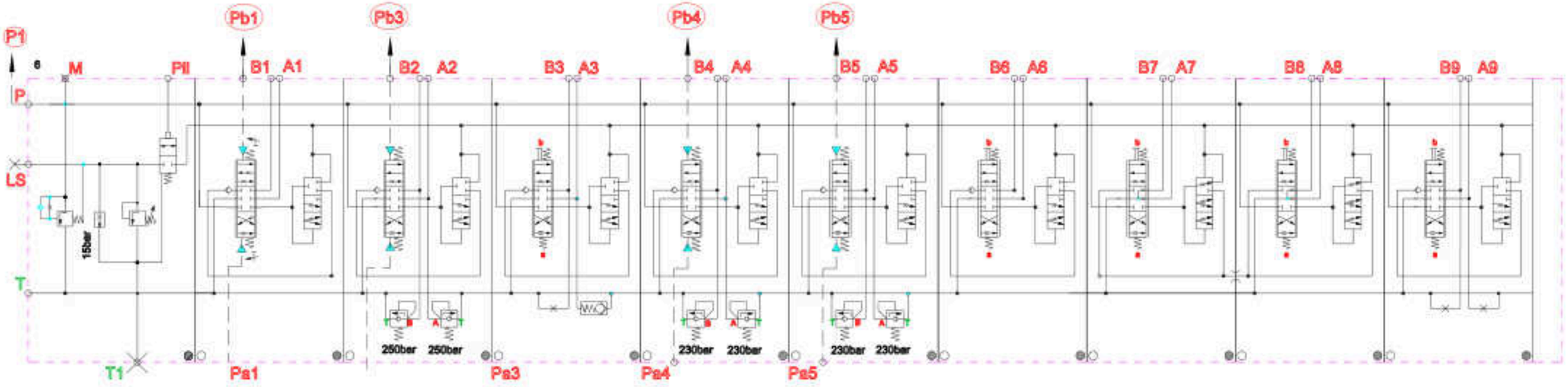
Caution!

Make sure under all circumstances that the fork head of the Bowden cable in the tool case does not touch the seat console.

- *The angle of the stabiliser blade/telescopic undercarriage lever can be set by means of the set screw on the Bowden cable.*

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5.14 Main valve block diagram 1404 RD



Pilot control lines

Port	Legend	Controlled via
Pa1, Pb1	Rotation control	Joystick (left)
Pa3, Pb3	Stick control	Joystick (left)
Pa4, Pb4	Boom control	Joystick (right)
Pa5, Pb5	Bucket control	Joystick (right)

Main control lines

Port	Legend
A1, B1	Swivel unit
A2, B2	Stick ram
A3, B3	Offset ram
A4, B4	Boom ram
A5, B5	Bucket ram
A6, B6	Stabiliser blade/telescoping ram
A7, B7	Travelling drive (right)
A8, B8	Travelling drive (left)
A9, B9	Auxiliary hydraulics

Pump/tank lines

Port	Legend
P	Gear pump port
T	Tank line
LS	Load Sensing

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