PUMA 115
PUMA 125
PUMA 140
PUMA 155

Tractor with/without Multicontroller

SERVICE MANUAL

Part number 87727132BNA

English

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CASE IH AGRICULTURE

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Contents

INTRODUCTION

HYDRAULIC - PNEUMATIC - ELECTRICAL - ELECTRONIC SYSTEMSA

PRIMARY HYDRAULIC POWER SYSTEM A.10.A

PRIMARY HYDRAULIC POWER SYSTEM Closed center mechanical remote valve A.10.B

PRIMARY HYDRAULIC POWER SYSTEM Electro-hydraulic remote valve A.10.C

SECONDARY HYDRAULIC POWER SYSTEM A.12.A

PNEUMATIC SYSTEM A.20.A

ELECTRICAL POWER SYSTEM A.30.A

ELECTRICAL POWER SYSTEM A.30.A

ELECTRONIC SYSTEM A.50.A

FAULT CODES A.50.A

ENGINE AND PTO IN ..... B

ENGINE B.10.A

FUEL AND INJECTION SYSTEM B.20.A

AIR INTAKE SYSTEM B.30.A

EXHAUST SYSTEM B.40.A

ENGINE COOLANT SYSTEM B.50.A

LUBRICATION SYSTEM B.60.A

STARTING SYSTEM B.80.A

TRANSMISSION, DRIVE AND PTO OUT C

TRANSMISSION Powershift C.20.E

ADDITIONAL REDUCERS Creeper C.30.C

ADDITIONAL REDUCERS Overdrive C.30.D

REAR PTO Hydraulic C.40.C

TRANSMISSION Semi-Powershift C.20.D

AXLES, BRAKES AND STEERING ..... D

FRONT AXLE D.10.A

REAR AXLE D.12.A

2WD-4WD SYSTEM Hydraulic D.14.C

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STEERING Hydraulic D.20.C
STEERING AutoPilot D.20.E
SERVICE BRAKE Mechanical D.30.B
SERVICE BRAKE Hydraulic D.30.C
SERVICE BRAKE Pneumatic D.30.E
PARKING BRAKE Mechanical D.32.B
BRAKE CONNECTION Hydraulic D.34.C
SUSPENSION Hydraulic D.40.C
WHEELS AND TRACKS Wheels D.50.C
PARKING BRAKE Electronic D.32.D

FRAME AND CAB ..... E

FRAME Primary frame E.10.B
SHIELD E.20.A
USER PLATFORM E.34.A
ENVIRONMENT CONTROL Heating, ventilation and air-conditioning E.40.D

HITCH AND WORKING TOOL ..... H

HITCH Front hitch H.10.B
HITCH Rear hitch H.10.C
HITCH Electronic draft control H.10.D

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Wiring harness - Electrical schematic frame 02 Power Distribution

PUMA 115 Semi powershift STD, PUMA 125 [Z7BL01001 - Z9BL40000] Semi powershift STD, PUMA 125 [Z7BL50001 - Z9BL60000] Semi powershift STD, PUMA 140 [Z7BL01001 - Z9BL40000] Semi powershift STD, PUMA 140 [Z7BL50001 - Z9BL60000] Semi powershift STD, PUMA 155 [Z7BL01001 - Z9BL40000] Semi powershift STD, PUMA 155 [Z7BL50001 - Z9BL60000] Semi powershift STD

Component	Connector	Description
F40	**C072**	Fuse **10 A** - Radio
F41	**C071**	Fuse **15 A** - Relay electrohydr. remote valve
F42	**C071**	Fuse **10 A** - Potentiometer Front powerlift
F43	**C071**	Fuse **10 A** - Engine electronics (Potential 15)
F46	**C071**	Fuse **15 A** - Engine controller
F47	**C071**	Fuse **10 A** - Engine controller
F49	**C071**	Fuse **15 A** - Fan electronics, relay heater grid, relay fuel filter heater
F60	**C071**	Fuse **10 A** - Relay battery isolator
R3	**C034**	Relay - Ignition
R5	**C035**	Relay - Starter motor ON
	C020	Main Rear Cab Harness to Transmission Harness Connector
	C024	Main Rear Cab Harness to Engine Harness Connector
	C227	Front Hitch / Front PTO Harness Connector
	C623	Fast Steer Harness Connector

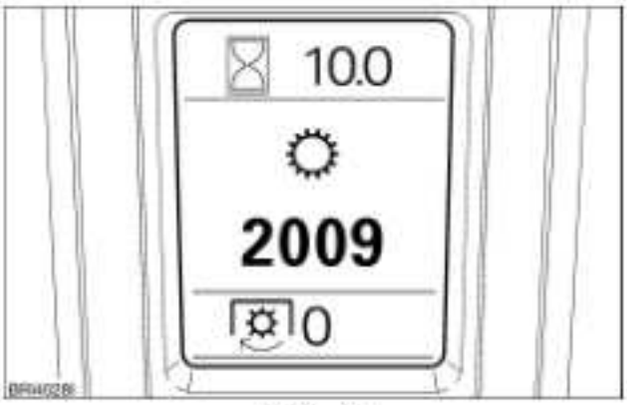
Wire Colour Codes							
B	Black	R	Red	LTG	Light Green	K	Pink
N	Brown	O	Orange	U	Blue	W	White
TN	Light Brown	Y	Yellow	TQ	Turquoise		
S	Slate	G	Green	L	Lilac		

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FAULT CODE DISPLAYS

All fault codes are displayed on the analog digital instrument cluster (ADIC) dot matrix display (DMD). Only disabling errors will be displayed on the DMD and will be visible to the operator. Less serious errors are stored and can be retrieved via the H-Menus, refer to **Control module - Static description (A.50.A)** for more detailed information.



BR04228 39

Fault Code Symbols

1. Engine
2. Transmission
3. Differential lock
4. CAN malfunction
5. Electronic draft control
6. Front hitch
7. P.T.O. system
8. Electronic remote valves
9. Electronic remote valves
10. Front suspension
11. Four wheel drive
12. Instrument panel electrical fault
13. Fast steer system
14. Air conditioning system

The ICU2 will display a symbol accompanied by a four or five digit code to indicate a fault has occured. The symbol represents the system in which the fault is detected and the code specifies the cause of the detected fault.
The fault codes are grouped by system using the following numbered ranges:

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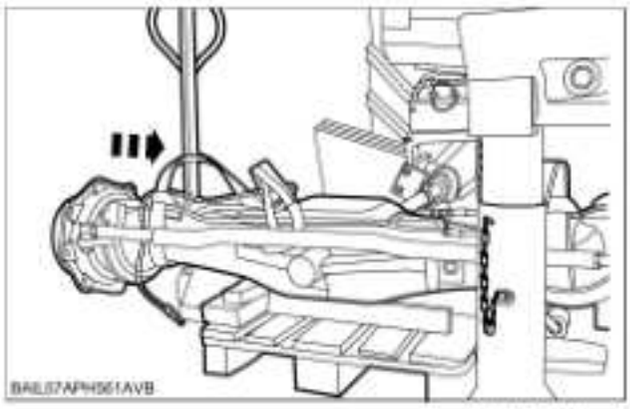
FRONT AXLE - Install (Standard Axle)

⚠ DANGER ⚠

Lift and handle all heavy components using lifting equipment of appropriate lifting capacity. Make sure that units or parts are supported by suitable slings or hooks. Make sure that no-one is in the vicinity of the load to be lifted. Failure to comply could result in serious injury or death.

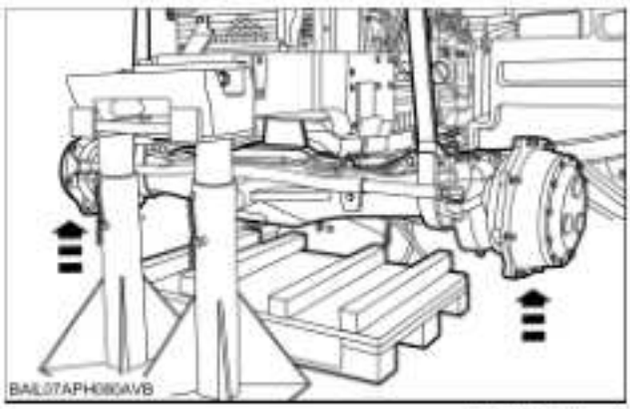
B012

1. Position the front axle below the vehicle.



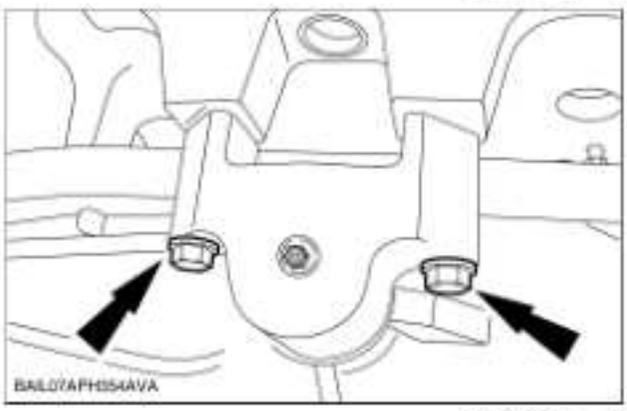
BAIL07APH061AVB 1

2. Raise the front axle into position.



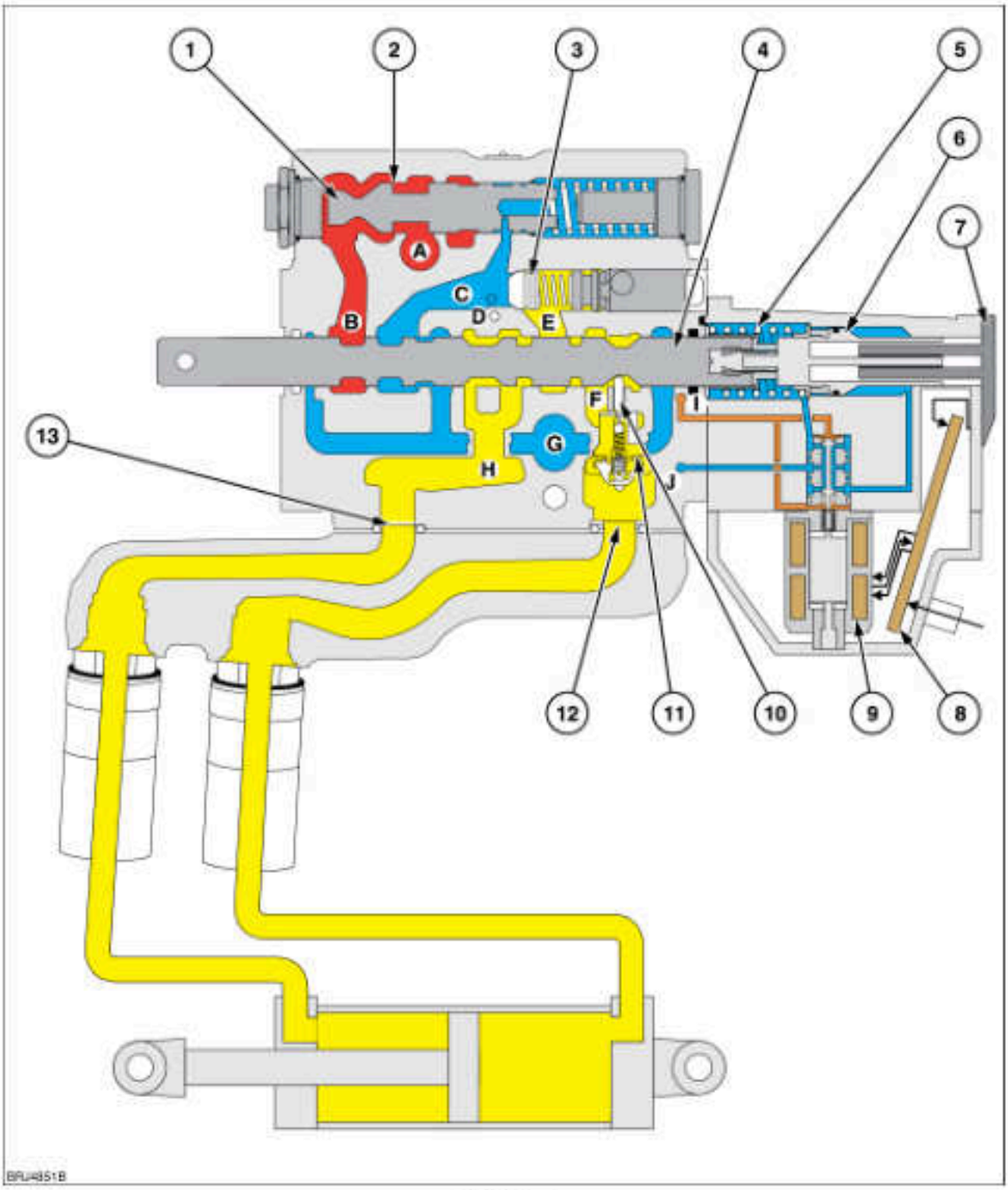
BAIL07APH060AVB 2

3. Install the front axle front carrier retaining bolts. Tighten to **360 Nm (265 lb ft)**.



BAIL07APH054AVA 3

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BAIL07APH019G 1

Single Remote Control Valve Operation-Neutral

	Pump Pressure		Return To Reservoir
	Trapped Oil		Pilot Line Pressure

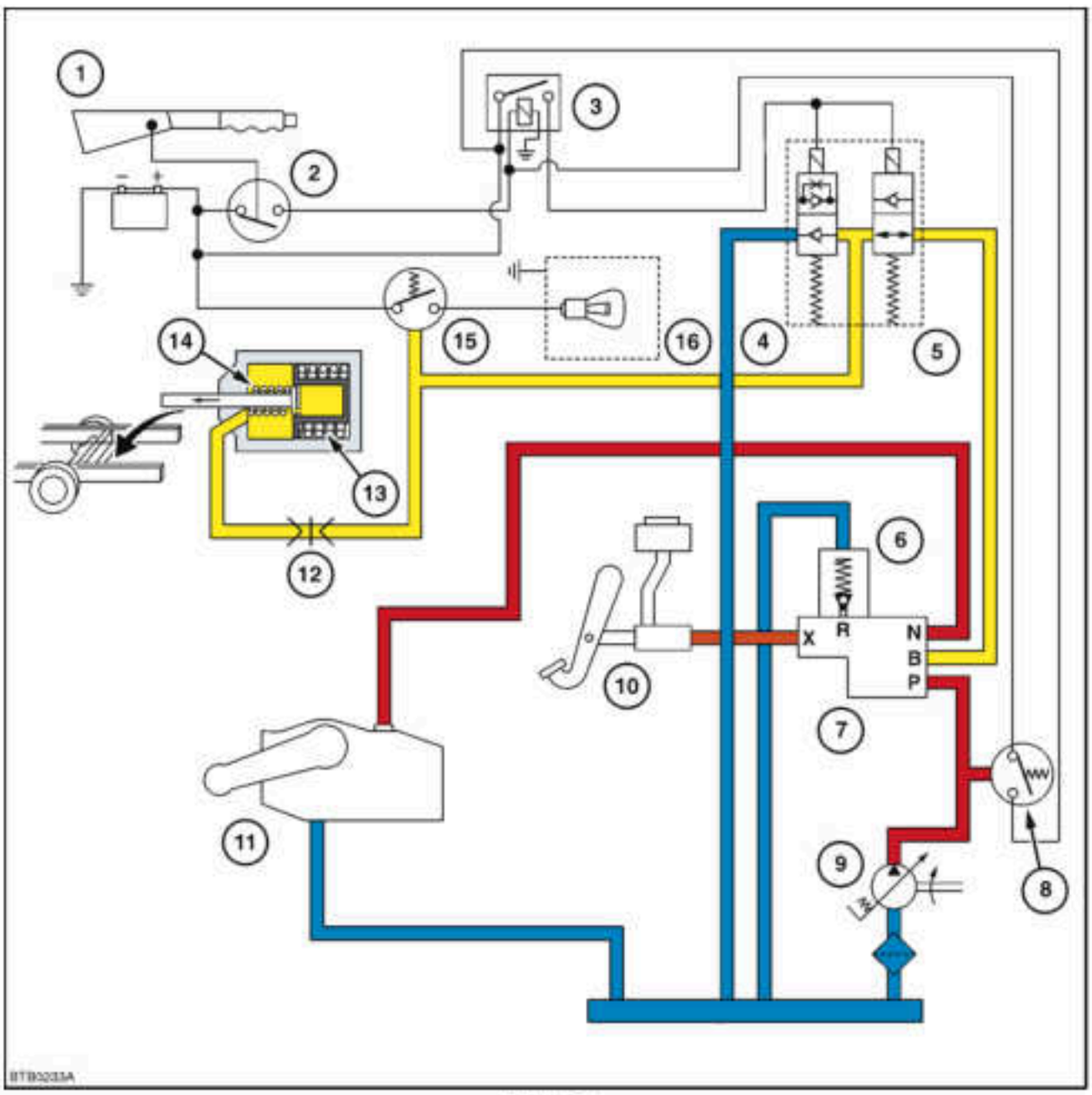
OIL FLOW IN RAISING (CYLINDER EXTEND)

When the remote valve operator control switch is moved to the raise position the control spool is moved to the left via pilot line oil from the solenoid control unit, supplied from Gallery **(I)**.

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Italian Trailer Brake Valve - Engine Running Brakes Applied

When the tractor brake pedal is depressed the control of oil flow through the trailer brake valve **(7)** is the same as described for tractors with the standard trailer brake system, refer to **Trailer brake valve - Dynamic description (D.34.C)** and the outlet pressure through port 'B' will be **12 - 150 bar**(**174 - 2180 lbf/in 2**) depending on the pressure applied to the brake pedal.
The delivery solenoid **(5)** is open and the discharge solenoid **(4)** is closed. Oil exiting port 'B' flows through the 'Open' delivery solenoid valve **(5)** to the trailer brake coupler **(12)**.
When a trailer is connected to the coupler the pressure passing through the coupling to the trailer braking mechanism overcomes the spring force (**(13)** and **(14)**) and moves the actuating pin forward to apply the brakes on the trailer.



BTB0233A 2

Italian Trailer Brake Valve Schematic- Engine Running Brakes Applied

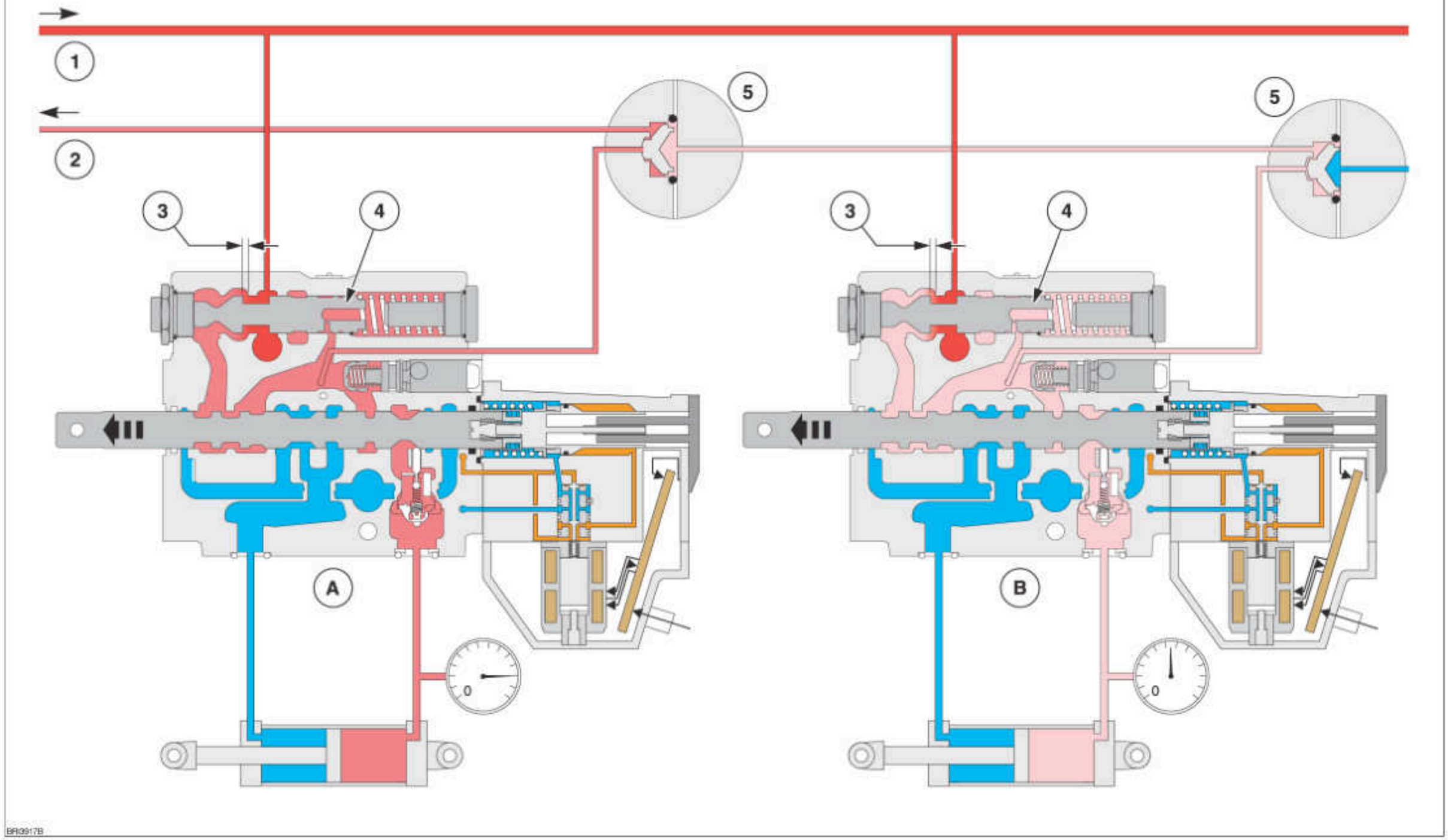
Pump Pressure

Trailer Braking Pressure **11 bar**)

Brake Pedal Pressure

Return to Reservoir

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