SERVICE MANUAL

T6030 / T6050 / T6070 / T6080 / T6090 Power Command, T6030 / T6050 / T6070 / T6080 / T6090 Range Command

Tractor

Part number 87727160B-NA
English
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Wiring harness - Electrical schematic frame 41 Auxiliary Control Unit

T6080 Range Command without Sidewinder, T6030 Range Command without Sidewinder, T6050 Range Command without Sidewinder, T6070 Range Command without Sidewinder

Component	Connector	Description
MOD-010	**C098/ C099/ C100/ C101/ C102**	XCM - Auxiliary Central Control Unit
SEN-005	**C234**	Front Axle Position Potentiometer
SOL-002	**C506**	Suspension Raise Solenoid
SOL-003	**C505**	Suspension Lower Solenoid
SOL-004	**C507**	Upper Lockout Solenoid
SOL-005	**C508**	Lower Lockout Solenoid
SOL-006	**C672**	Link Levelling Valve 2
SOL-007	**C673**	Link Levelling Valve 3
SOL-008	**C674**	Link Levelling Valve 4
SOL-009	**C675**	Link Levelling Valve 5
SOL-014	**C671**	Link Levelling Valve 1
SW-010	**C678**	Top Link Switch
SW-011	**C679**	Side Link Switch
	C020	Main Rear Cab Harness to Transmission Harness Connector
	C022	Main Rear Cab Harness to Transmission Harness Connector
	C024	Main Rear Cab Harness to Engine Harness Connector
	C026	Main Rear Cab Harness to Engine Harness Connector
	C064	Main Rear Cab Harness to EHR Harness Connector
	C227	Front Hitch / Front PTO Harness Connector
	C259	Front Suspension Harness Connector
	C659	Link Level 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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ELECTRICAL POWER SYSTEM - General specification

T6080 Range Command with Sidewinder [Z9BK40001 -], T6030 Range Command with Sidewinder [Z9BK40001 -], T6030 Power Command with Sidewinder [Z9BK40001 -], T6080 Power Command with Sidewinder [Z9BK40001 -], T6050 Range Command with Sidewinder [Z9BK40001 -], T6050 Power Command with Sidewinder [Z9BK40001 -], T6070 Range Command with Sidewinder [Z9BK40001 -], T6070 Power Command with Sidewinder [Z9BK40001 -], T6090 Range Command with Sidewinder [Z9BK40001 -], T6090 Power Command with Sidewinder [Z9BK40001 -]

Description	All Models
Alternator	ISKRA, **12 V**, **120 A** (optional **150 A**)
Battery	Minimum maintenance **12 V** 176 Ah (1300 cca)
Starting motor	Positive engagement, solenoid operated **4.2 kW** - geared reduction
Cold starting aid	Optional inlet manifold grid heater (**80 A**) and fuel heater
Bulb rating and type	
- headlights	**60/55 W** - H4
- parking lights (front)	**5 W** - R**5 W**
- parking lights (rear)	**5 W** - P **21/5 W**
- work lights (hi-mount rear, on C-pillar and grabrail)	**12 V 55 W** - H3
- turn indicators (front)	**21 W** - PY**21 W**
- turn indicators (rear)	**21 W** - R**21 W** or PY**21 W**
- stop lights	**21 W** - P **21/5 W**
- licence plate lights	**5 W** - R**5 W**
- rotating beacon	**55 W** - H1
- interior / step light	**12 V** R **10 W**
- HID Xenon work lights rear roof	HID DIS **12 V 35 W**
- work lights hood	H3 **12 V 60 W**
- SMV (slow moving vehicle) lights (N. America only) and extremity lights	**21 W**-P**21 W**
- roof front work lights	**12.8 V 50 W** - 885

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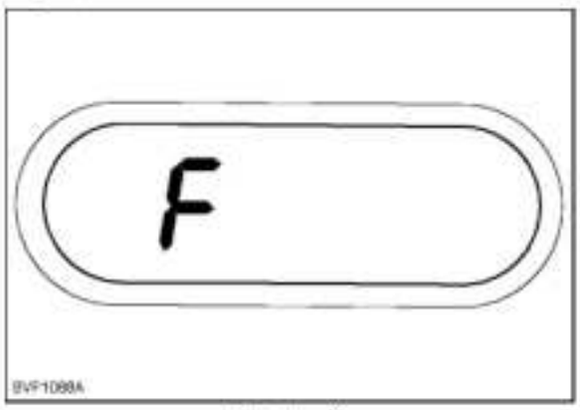
The lower central display will display "_ _ _", if no fault code is stored in the selected sub-system.



BAIL06CCM487AVA

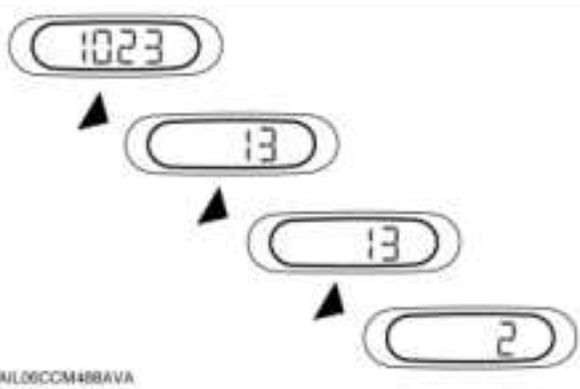
BAIL06CCM487AVA 86

The lower central display will display "F", if a fault code is stored in the selected sub-system.



BVF1088A 87

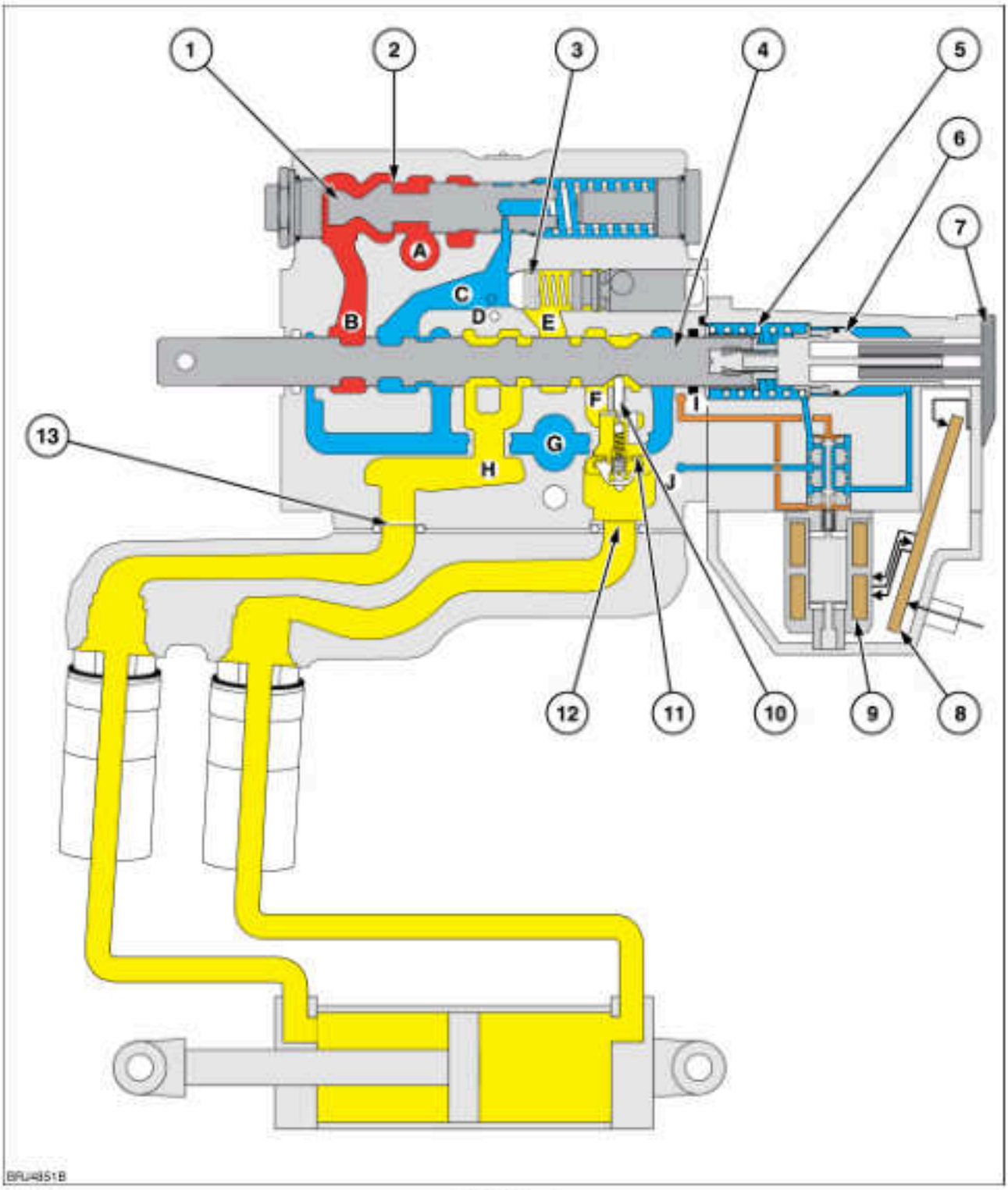
The lower central display will the automatically cycle through as the example:
1023 Fault code
13 Hour of first occurrence
13 Hour of last occurrence
2 Number of occurrences of the fault



BAIL06CCM488AVA 88

Depress the "h" or "m" key to change to the next fault code in the list.
The lower central display will display "_ _ _" at the end of the list.
Depress the "dimming" key to continue navigating through the "HH" menus.

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Single Remote Control Valve Operation-Neutral

	Pump Pressure		Return To Reservoir
	Trapped Oil		Pilot Line Pressure

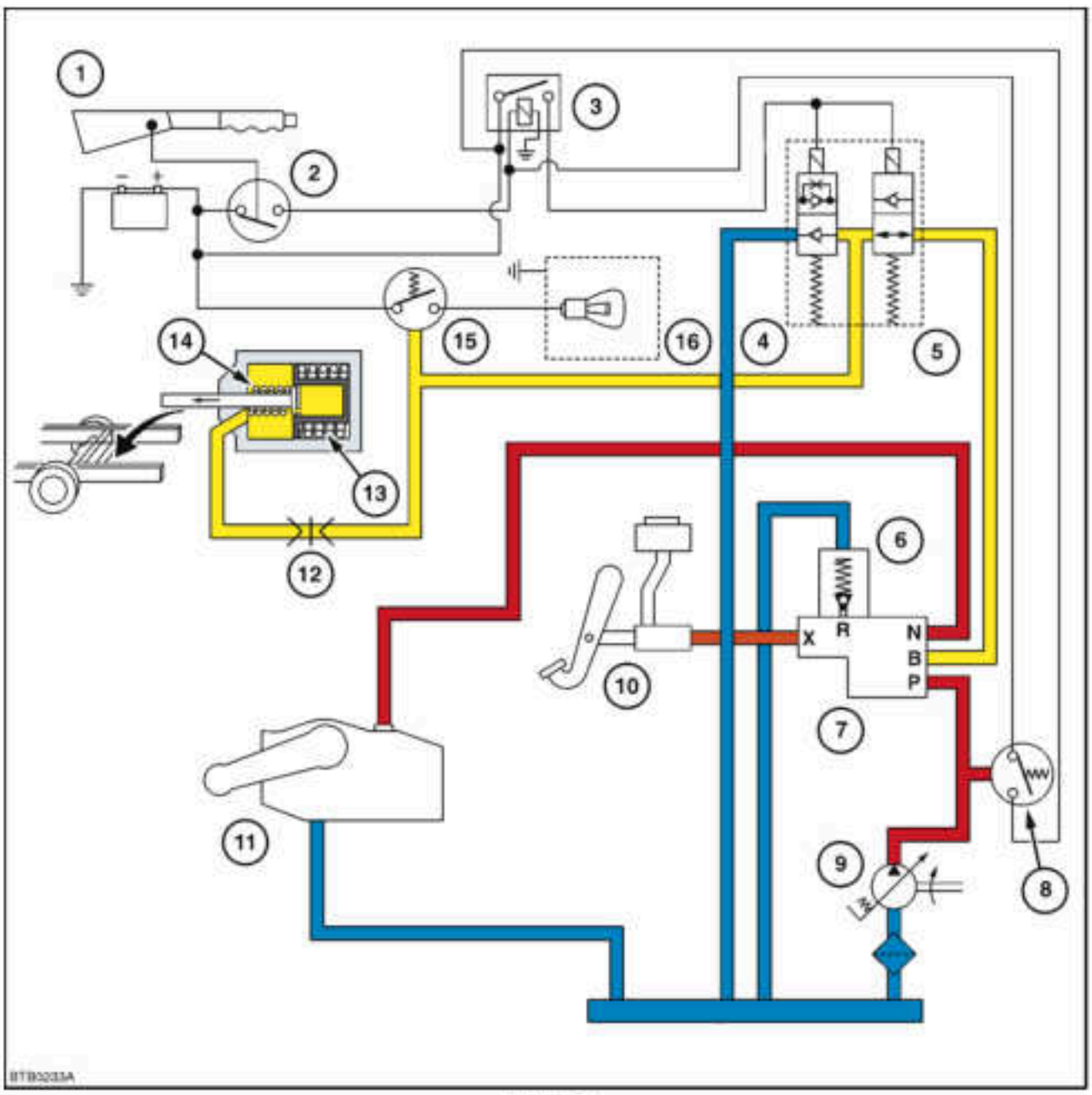
OIL FLOW IN RAISING (CYLINDER EXTEND)

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

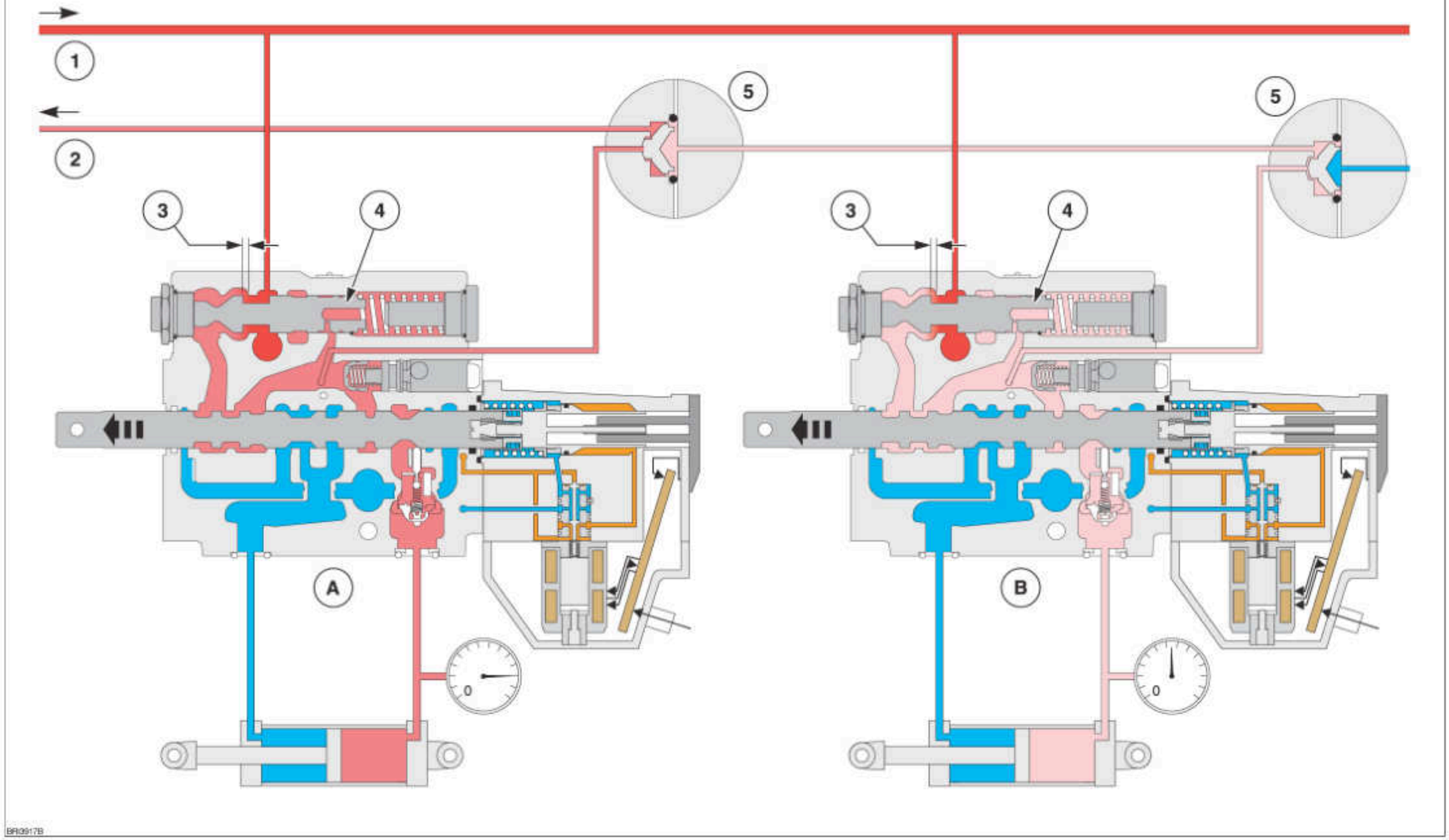
Pump Pressure

Trailer Braking Pressure **11 bar**)

Brake Pedal Pressure

Return to Reservoir

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