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## ABS Troubleshooting for Trucks, Trailers, and Buses

### STEP 4: Blink Codes for Wabco D version ECU

1. Use the table to identify ABS faults from the ECU Blink Codes recorded in [STEP 3: Blink code identification and system response](#)
2. Links to solutions for common ABS faults can also be found below
3. Please ensure all necessary Health and Safety precautions are implemented and adhered to before commencing any repair work
4. A list of useful [ABS Diagnostic Tools](#) is available on this website
5. If you require further help or information, please [contact us](#)



Wabco D version ECU (shape 1)



Wabco D version ECU (shape 2)

Blink Code	Location	Type of Fault	Action Required
2-1	Right front steering axle	ABS modulator valve	Check ABS modulator valve, valve cable, and connectors  12-volt system: Verify 4.0-9.0 ohms resistance (ABS modulator valve)  24-volt system: Verify 11.0-21.0 ohms resistance (ABS modulator valve)  Refer to service information provided by manufacturer
2-2	Left front steering axle		
2-3	Right rear drive axle		
2-4	Left rear drive axle		
2-5	Right rear/additional axle		
2-6	Left rear/additional axle		
3-1	Right front steering axle	Too much sensor gap	Adjust wheel sensor to touch tooth wheel  Check sensor gap  Check for loose wheel bearings or excessive hub runout  Verify minimum 0.2 volts AC output @ 30 RPM
3-2	Left front steering axle		
3-3	Right rear drive axle		
3-4	Left rear drive axle		
3-5	Right rear/additional axle		
3-6	Left rear/additional axle		
4-1	Right front steering axle	Sensor short circuit, or open circuit	Check sensor, sensor cable, and connectors  Verify 900-2000 ohms resistance  Repair or replace as needed
4-2	Left front steering axle		
4-3	Right rear drive axle		
4-4	Left rear drive axle		
4-5	Right rear/additional axle		
4-6	Left rear/additional axle		
5-1	Right front steering axle	Sensor signal erratic	Check for tyre size mismatch or tooth wheel difference  Check sensor, sensor cable, and connector for intermittent contact
5-2	Left front steering axle		
5-3	Right rear drive axle		
5-4	Left rear drive axle		
5-5	Right rear/additional axle		
5-6	Left rear/additional axle		
6-1	Right front steering axle	Tooth wheel	Check for damaged tooth wheel. Repair or replace as needed
6-2	Left front steering axle		
6-3	Right rear drive axle		

6-4	Left rear drive axle		
6-5	Right rear/additional axle		
6-6	Left rear/additional axle		
7-1	J1922 or J1939 datalink	System function	Check for proper data link connection (J1922 and J1939) Verify wheel spin on each axle
7-2	ATC valve	System function	Check ATC Valve, valve cables, and connectors Verify 7 to 14 ohms resistance for a 12-volt system, 28-49 ohms resistance for a 24-volt system
7-3	Retarder relay (third brake)	System function	Check retarder (third brake) connections
7-4	ABS indicator lamp	System function	Check ABS indicator light connections Verify blink code switch was activated longer than 16 seconds
7-5	ATC configuration	System function	Verify proper ATC set-up
7-6	Reserved for future use	System function	Verify accuracy of blink code and clear from ECU memory
8-1	Low power supply	ECU	Check for low voltage Check vehicle voltage, fuse, and supply to ECU (9.5-14 volts)
8-2	High power supply	ECU	Check for high voltage Check vehicle voltage (9.5-14 volts for a 12-volt system, 18-30 volts for a 24-volt system) Verify accuracy of blink code and clear from ECU memory
8-3	Internal fault	ECU	Verify accuracy of blink code and clear from ECU memory
8-4	System configuration error	ECU	Verify all ECU connectors are in place Verify accuracy of blink code and clear from ECU memory If code does not clear, it may be necessary to replace the ECU
8-5	Ground	ECU	(Full function, cab-mounted only) Check all ABS valve ground connections for diagonals 1 and 2 (open, shorted to ground or shorted to battery).



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