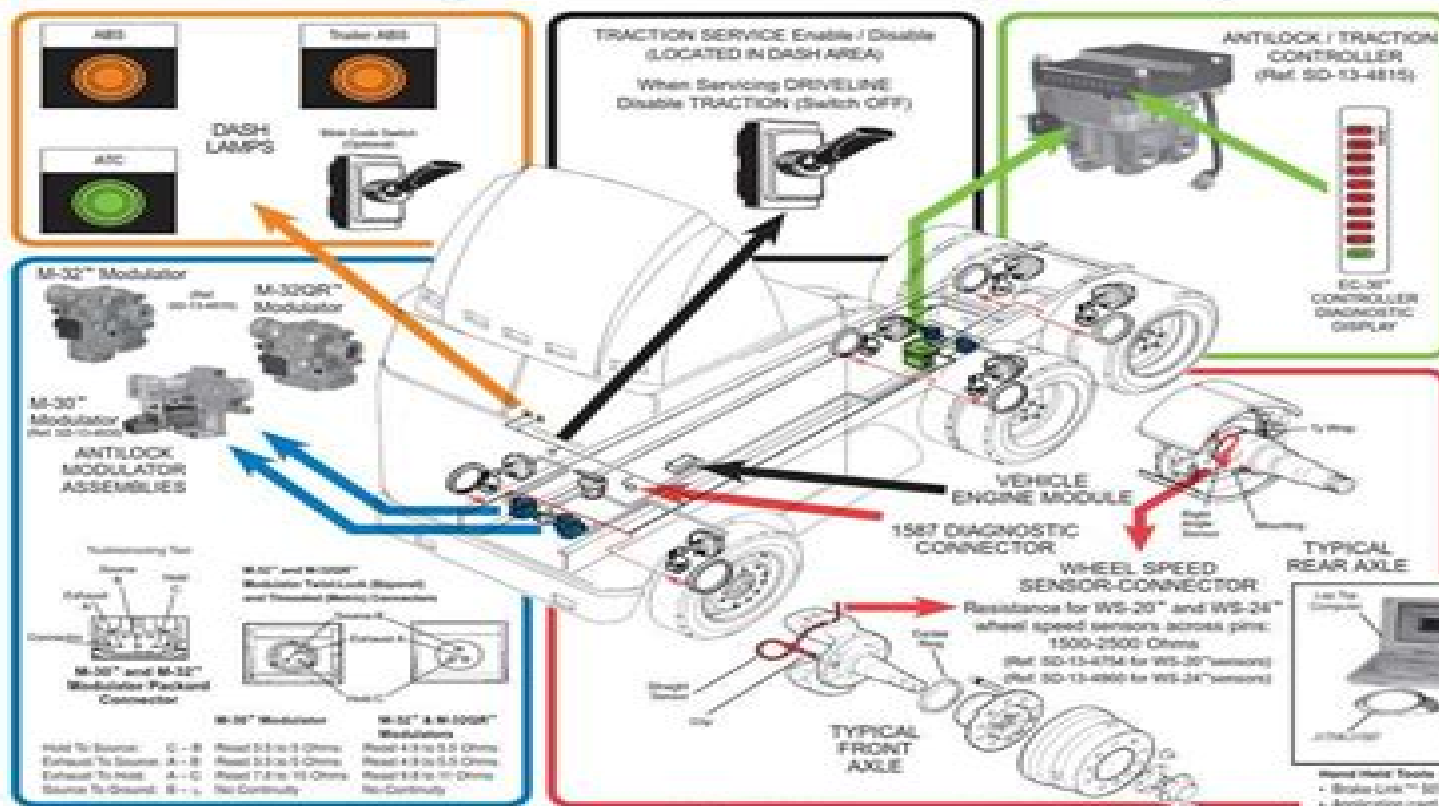


Troubleshooting EC-30™ Controller Antilock Systems with Optional Traction Control



INSTRUCTIONS

WARNING: Before power is applied to the vehicle and before wheel spinning lamps will illuminate for a period of 2.5 seconds while the electronic control unit (ECU) is performing a self check, and "Chuff" test. If a trailer long line has P.U.L., the trailer dash lamp will illuminate for 2.5 seconds then turn off unless a fault is indicated. The ABS and traction control modulators will be energized during the Chuff test. It is recommended during the initial start up that the brakes be applied to stabilize from the modulator exhaust during the "Chuff" test.

SERVICE MODE: When a fault is detected at start up, the dash lights will flash and remain illuminated. When a dynamic wheel speed sensor is detected the dash lamps will illuminate as early as 10 mph, indicating a wheel speed issue. The dash lamps notify the driver that all or part of the ABS function has been interrupted and standard air braking is in effect. The ECU will automatically reset most intermittent codes (self heating). In most instances, if the intermittent code has occurred more than ten times the issue will be noticed and require a thorough visit. The area of concern will always be identified in the diagnostic display.

TRACTION FUNCTION: The ECU monitors wheel spin, when a spin condition exists, the traction dash lamp will blink continuously indicating the traction control system is active. If indicated that vehicle is in spin limit, the ECU will automatically reset most intermittent codes (self heating).

SELF CONFIGURING: During self configuring the ECU will automatically determine the number of sensors and if electronic engine equipped. The ECU will also determine if the vehicle is traction equipped ONLY if the tractor switch is engaged prior to magnetically self configuring. Missing a magnet against the ABS7 area for 30 seconds complete self configuring.

BLINK CODE ACTIVATION: The ECU will provide more code diagnostics through the use of the dash code switch. Details on active faults, fault history, ECU configuration, and clearing of faults can be found in service data SD-13-4815.

PC Software:
• ACORN™ Diagnostics under WINCC™ or download from www.bendix.com



PC Software
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BLINK CODE DEFINITIONS

1st Digit	2nd Digit	Fault Description
1	1	No Faults
Power / ABS Controller		
1	2	Battery Voltage Too High
1	3	Battery Voltage Too Low
1	4	ABS Controller Fault (2)
1	5	ABS Controller Fault (5)
1	6	ABS Controller Fault (2)
1	7	ABS Controller Fault (5)
1	8	ABS Controller Fault (10)
1	9	ABS Controller Fault (11)
1	10	ABS Controller Fault (12)
1	11	ABS Controller Fault (13)
1	12	ABS Controller Fault (14)
1	13	ABS Controller Fault (1)
1	14	ABS Controller Fault (2)
1	15	ABS Controller Fault (5)
Wheel Speed Sensors		
2	1	LF Sensor Start
3	1	RF Sensor Start
4	1	LR Sensor Start
5	1	RR Sensor Start
6	1	LM Sensor Start
7	1	RM Sensor Start

Wheel Speed Sensors (Continued)		
2	2	LF Sensor Intermittent
3	2	RF Sensor Intermittent
4	2	LR Sensor Intermittent
5	2	RR Sensor Intermittent
6	2	LM Sensor Intermittent
7	2	RM Sensor Intermittent
2	3	LF Sensor Shorted to VBAT
3	3	RF Sensor Shorted to VBAT
4	3	LR Sensor Shorted to VBAT
5	3	RR Sensor Shorted to VBAT
6	3	LM Sensor Shorted to VBAT
7	3	RM Sensor Shorted to VBAT
2	4	LF Sensor Shorted to Ground
3	4	RF Sensor Shorted to Ground
4	4	LR Sensor Shorted to Ground
5	4	RR Sensor Shorted to Ground
6	4	LM Sensor Shorted to Ground
7	4	RM Sensor Shorted to Ground
2	5	LF Sensor Open
3	5	RF Sensor Open
4	5	LR Sensor Open

Wheel Speed Sensors (Continued)		
5	5	RR Sensor Open
6	5	LM Sensor Open
7	5	RM Sensor Open
2	6	LF Sensor Shorted Across Sensor
3	6	RF Sensor Shorted Across Sensor
4	6	LR Sensor Shorted Across Sensor
5	6	RR Sensor Shorted Across Sensor
6	6	LM Sensor Shorted Across Sensor
7	6	RM Sensor Shorted Across Sensor
2	7	LF Sensor Lock Time Out
3	7	RF Sensor Lock Time Out
4	7	LR Sensor Lock Time Out
5	7	RR Sensor Lock Time Out
6	7	LM Sensor Lock Time Out
7	7	RM Sensor Lock Time Out
2	8	LF Sensor Frequency Doubling
3	8	RF Sensor Frequency Doubling
4	8	LR Sensor Frequency Doubling
5	8	RR Sensor Frequency Doubling
6	8	LM Sensor Frequency Doubling
7	8	RM Sensor Frequency Doubling

Note 1: Check sensor gap with sensor in contact with the tone ring. For Bendix wheel speed sensors, there should be at least 0.25 vdc voltage output when turning wheel by hand at 0.5 rev/sec.

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**Bendix-Westinghouse Automotive Air
Brake Company**

A red, curved, semi-transparent graphic element that resembles a stylized arrow or a portion of a wheel, positioned to the right of the company name.

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Maintenance and Operation of Bendix B-K Vacuum Power Brakes Bendix Products Corporation, 1936 **Bendix Anti-lock**
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