



TIS0205-04

## ABS & RSS Basic Blink Code Diagnostics











Feb. 2013

These procedures can be used on North American designated WABCO ABS ECUs installed after February 2001 and Roll Stability Systems Plus (2M And 1M with black plastic tops). The constant power circuit (normally the blue wire) must be used to initiate fault display. This circuit must triggered on and off in proper sequence to start the display.

### Typical Circuit Triggers

1. Turning the key on a properly wired tractor connected to the trailer.
2. Switching the blue power using a light tester or other suitable means. Battery chargers and many other AC converters can cause the ABS to react erratically. A 12 volt battery is the recommended source for a tester.

### Start The Active Fault Display

<b>1.</b> Power on to the blue wire for no more than five seconds	<b>2.</b> Turn power off for three to five seconds.	<b>3.</b> Turn the power on. The lamp stays on for a moment.	<b>4.</b> After a short delay the warn lamp will flash several quick times followed by a longer pause. Count the quick flashes to get the fault number. The sequence will be repeated three times.
Warn Lamp 	Warn Lamp 	Warn Lamp  	Warn Lamp       ...

### Fault Number Chart

Blink Code Counts	Cause On Anti-Lock Brake Systems	Cause On Roll Stability Systems	Location	Checks
3	Sensor BU1	Sensor C	Determine sensor location from configuration or follow cabling from port (where marked on valve) to the wheel end.  *Not applicable to 2S1M valves.	Check cabling for short or no circuit, hub for excessive runout, exciter ring for damage, and sensor gap.
4	Sensor YE1	Sensor D		
5	Sensor BU2	*Sensor E		
6	Sensor YE2	*Sensor F		
7	External Modulator	External Modulator	External modulator and/or cable	Check the cable for connection and continuity. Verify valve function.
9	Internal Modulator	*Internal Modulator H2	Internal Inlet Control #2	Verify proper installation. If code continues, contact Meritor WABCO for assistance.
10	Internal Modulator	Internal Modulator H1	Internal Inlet Control #1	
11	Internal Modulator	No Speed Failure	Internal Outlet Control	
12	N/A	Control Pressure	External Air Supply	Verify proper pressure to control line.
13	N/A	Suppy Pressure	External Air Supply	Verify proper pressure to reservoir.
14	Power Supply	Power Supply	Power Supply, Cabling, And/OR Connectors	Verify electrical installation, power supply and EOL has passed (RSS only).
15	ECU Failure	ECU Failure Or EOL	Internal ECU Failure Or On RSS Incomplete End Of Line Test	Verify Proper Installation And On RSS That ECU Passed End Of Line (EOL) Test.
16	SAEJ1708 Failure	SAEJ1708 Failure	ECU Internal Failure	Internal failure. Contact Meritor WABCO for assistance.
17	SAE J2497 (PLC) Failure	SAE J2497 (PLC) Failure	ECU Internal Failure	
18	Generic I/O Failure	Generic I/O Failure	Cabling	Verify proper electrical installation and power supply.
19	N/A	Load Sensing	Load Sensor, Sensor Adjustment Or Cabling	Verify proper mechanical and parameter settings.
20	N/A	Roll Stability	Accelerometer	Verify proper installation. If code continues, contact Meritor WABCO for assistance."