

1st Digit	Sensors
2	2 Sensors
4	4 Sensors
2nd Digit	Modulators
1	1 Modulator
2	2 Modulators
3	3 Modulators
3rd Digit	ABS Control Mode
1	Axle
2	Side
3	Dolly-Axle
4	MOD1 Axle - MOD2 Dolly-Axle
5	MOD1 Axle - MOD2 Lift Axle Detection
6	Side (MOD1, MOD2) - MOD3 Dolly-Axle

**CHART 6 – ABS CONFIGURATIONS**

### Display Odometer Mileage

To display the trailer odometer mileage, apply ignition power and depress/release the brake pedal seven (7) times within 15 seconds. Following activation, there will be a five (5)-second delay followed by a blink code display of the odometer information (x1000).

Example: 152,431 miles will be displayed as: one (1) blink, (pause), five (5) blinks, (pause), two (2) blinks.

Zeros will be displayed by the ABS indicator lamp strobing twice.

Odometer mileage cannot be altered with blink code diagnostics. Complete odometer information can be retrieved using a diagnostic tool.

### Resetting ABS Configuration

To reset the ABS configuration to the default configuration, apply ignition power and depress/release the brake pedal eight (8) times within 15 seconds. Following activation, the Bendix® TABS-6™ ABS configuration will reset to the default ABS configuration (2S/1M), and will self-configure the next time the trailer receives power.

## Diagnostic Trouble Codes (DTCs)

1st Digit	2nd Digit	Diagnostic Trouble Code (DTC) Description	J1587 (SID)	J1587 (FMI)	Repair Information	
1	1	No DTCs	1	0	• ABS system fully operational – no DTCs detected	
<b>WHEEL SPEED SENSORS (WSS)</b>						
2	1	SL Sensor signal valid - large air gap	1	0	Dynamic Wheel Speed Sensor DTC. <i>Go to Section G, on Page 31.</i>	
3	1	SR Sensor signal valid - large air gap	2	0		
4	1	SAL Sensor signal valid - large air gap	3	0		
5	1	SAR Sensor signal valid - large air gap	4	0		
2	2	SL Sensor signal valid - loss of signal	1	1		
3	2	SR Sensor signal valid - loss of signal	2	1		
4	2	SAL Sensor signal valid - loss of signal	3	1		
5	2	SAR Sensor signal valid - loss of signal	4	1		
2	3	SL Sensor signal valid – noisy	1	2		
3	3	SR Sensor signal valid – noisy	2	2		
4	3	SAL Sensor signal valid – noisy	3	2		
5	3	SAR Sensor signal valid – noisy	4	2		
2	4	SL Sensor shorted or open	1	4 or 5		Static Wheel Speed Sensor DTC. <i>Go to Section G, on Page 31.</i>
3	4	SR Sensor shorted or open	2	4 or 5		
4	4	SAL Sensor shorted or open	3	4 or 5		
5	4	SAR Sensor shorted or open	4	4 or 5		
2	5	SL Tire diameter out of range	1	13	<ul style="list-style-type: none"> <li>• Verify correct tire size as desired.</li> <li>• Verify proper tire inflation.</li> <li>• Verify correct number of exciter ring teeth.</li> <li>• Verify that the Electronic Control Unit (ECU) has the proper tire size settings.</li> </ul>	
3	5	SR Tire diameter out of range	2	13		
4	5	SAL Tire diameter out of range	3	13		
5	5	SAR Tire diameter out of range	4	13		

## Diagnostic Trouble Codes (DTCs) (continued)

1st Digit	2nd Digit	Diagnostic Trouble Code (DTC) Description	J1587 (SID)	J1587 (FMI)	Repair Information
4	6	SAL Sensor configuration error	3	13	<ul style="list-style-type: none"> <li>Verify correct ABS configuration using blink codes or other diagnostic tools.</li> <li>If needed, reset to the default ABS configuration and power-up to initiate auto-configuration.</li> </ul>
5	6	SAR Sensor configuration error	4	13	
<b>POWER</b>					
6	1	Over-voltage	251	3	<ul style="list-style-type: none"> <li>Power supply diagnostic trouble code. <i>Go to Section F, page 30.</i></li> </ul>
6	2	Low-voltage	251	4	
6	3	Excessive power line resistance	251	13	
<b>MODULATOR (MOD)</b>					
7	1	MOD1 Hold solenoid shorted or open	42	3, 4, 5, 6 or 12	<ul style="list-style-type: none"> <li>Clear DTCs.</li> <li>If DTCs return, replace the Bendix® TABS-6™ module.</li> </ul>
7	2	MOD1 Release solenoid shorted or open	48	3, 4, 5, 6 or 12	
8	1	MOD2 Hold solenoid shorted or open	43	3, 4, 5, 6 or 12	Static ABS Modulator DTC. <i>Go to Section H, on Page 32.</i>
9	1	MOD3 Hold solenoid shorted or open	44		
8	2	MOD2 Release solenoid shorted or open	49		
9	2	MOD3 Release solenoid shorted	50		
7	3	MOD1 ABS modulator dynamic error	7	7	Dynamic ABS Modulator DTC. <i>Go to Section H, on Page 32.</i>
8	3	MOD2 ABS modulator dynamic error	8		
9	3	MOD3 ABS modulator dynamic error	9		
8	4	MOD2 Valve configuration error	8	13	<ul style="list-style-type: none"> <li>Verify correct ABS configuration using blink codes or other diagnostic tools.</li> <li>If needed, reset to the default ABS configuration and power-up to initiate auto-configuration.</li> </ul>
9	4	MOD3 Valve configuration error	9	13	
<b>COMMON</b>					
10	1	Valve MOD1/2 low-side switch shorted to ground	7	4	<ul style="list-style-type: none"> <li>Check for corroded/damaged wiring or connectors between the ECU and MOD.</li> <li>At the MOD harness connector, verify:                             <ul style="list-style-type: none"> <li>No continuity from modulator/AUX leads to ground.</li> <li>After repairs or if no issues found, then clear DTCs.</li> <li>If DTCs return, replace the Bendix® TABS-6™ module.</li> </ul> </li> </ul>
10	2	Valve MOD3 low-side switch shorted to ground	9		
10	3	ABS modulator dynamic error - all valves	7	7	Dynamic ABS Modulator DTC. <i>Go to Section H, on Page 32.</i>
10	4	Excessive ABS activity	1		Dynamic Wheel Speed Sensor DTC. <i>Go to Section G, on Page 31.</i>
<b>ELECTRONIC CONTROL UNIT (ECU)</b>					
11	1	ECU internal error	254	12	<ul style="list-style-type: none"> <li>Check for damaged or corroded connectors.</li> <li>Check for damaged wiring.</li> <li>After repairs or if no issues found, then clear DTCs.</li> <li>If DTCs return, replace the Bendix TABS-6 module.</li> </ul>
11	2	ECU configuration error	254	13	<ul style="list-style-type: none"> <li>Verify correct ABS configuration using blink codes, PC-diagnostics or other off-board diagnostic tools.</li> <li>If needed, reset to the default ABS configuration and power-up to initiate auto-configuration.</li> </ul>

## Diagnostic Trouble Codes (DTCs) (continued)

1st Digit	2nd Digit	Diagnostic Trouble Code (DTC) Description	J1587 (SID)	J1587 (FMI)	Repair Information
<b>J1587 DIAGNOSTIC</b>					
12	1	J1587 diagnostics shorted or open	250	3, 4, 5, 6 or 12	<ul style="list-style-type: none"> <li>• Check for corroded/damaged wiring or connectors between the ECU and J1587 Diagnostic.</li> <li>• Verify the following:               <ul style="list-style-type: none"> <li>- At the 18-pin ECU harness connector:                   <ul style="list-style-type: none"> <li>(a) Continuity of the J1587 Diagnostic wiring to the lamp (auxiliary device).</li> <li>(b) +12V is not measured at J1587 Diagnostic lead.</li> </ul> </li> <li>- At J1587 Diagnostic connector:                   <ul style="list-style-type: none"> <li>(a) No continuity of the J1587 Diagnostic lead to ground.</li> <li>(b) No continuity from J1587 Diagnostic lead to any other ECU pin(s).</li> <li>(c) Replace/repair J1587 Diagnostic wiring or components as required.</li> </ul> </li> </ul> </li> </ul>
<b>TRAILER-MOUNTED ABS INDICATOR LAMP</b>					
13	1	ABS lamp shorted or open	81	3, 4, 5, 6 or 12	<ul style="list-style-type: none"> <li>• Check for corroded/damaged wiring or connectors between the ECU and ABS Indicator Lamp.</li> <li>• Verify the following:               <ul style="list-style-type: none"> <li>- At the five (5)-pin or 18-pin ECU harness connector:                   <ul style="list-style-type: none"> <li>(a) Continuity of the ABS Indicator Lamp wiring to the lamp (auxiliary device).</li> <li>(b) +12V is not measured at ABS Indicator Lamp lead.</li> </ul> </li> <li>- At ABS Indicator Lamp connector:                   <ul style="list-style-type: none"> <li>(a) No continuity of the ABS Indicator Lamp lead to ground.</li> <li>(b) No continuity from ABS Indicator Lamp lead to any other ECU pin(s).</li> <li>(c) Replace/repair ABS Indicator Lamp wiring or components as required.</li> </ul> </li> </ul> </li> </ul>
<b>SERVICE INTERVAL</b>					
14	1	Pad wear alert	70	1	Check pad wear. Perform service as needed.
14	2	Service interval	104	0	The service interval has expired. Perform the planned service, and then use Bendix® ACom® Diagnostic Software to reset the interval.