

SAE J1939 Brake Stroke Alert Published Fault Codes

Code #	PGN	SPN	FMI	Definitions	Display Text
1	64881	3785		Tractor Brake Stroke Axle 1 Left	
3			1	Non-Functioning	Brake Stroke - Axle 1 Left - Non-Functioning Actuator
4			0	Over-stroke	Brake Stroke - Axle 1 Left - Over-Stroke
5			7	Dragging Brake	Brake Stroke - Axle 1 Left - Dragging Brake
6			4	Sensor Error	Brake Stroke - Axle 1 Left - Actuator Sensor Fault
7	64881	3786		Tractor Brake Stroke Axle 1 Right	
9			1	Non-Functioning	Brake Stroke - Axle 1 Right - Non-Functioning Actuator
10			0	Over-stroke	Brake Stroke - Axle 1 Right - Over-Stroke
11			7	Dragging Brake	Brake Stroke - Axle 1 Right - Dragging Brake
12			4	Sensor Error	Brake Stroke - Axle 1 Right - Actuator Sensor Fault
13	64881	3787		Tractor Brake Stroke Axle 2 Left	
15			1	Non-Functioning	Brake Stroke - Axle 2 Left - Non-Functioning Actuator
16			0	Over-stroke	Brake Stroke - Axle 2 Left - Over-Stroke
17			7	Dragging Brake	Brake Stroke - Axle 2 Left - Dragging Brake
18			4	Sensor Error	Brake Stroke - Axle 2 Left - Actuator Sensor Fault
19	64881	3788		Tractor Brake Stroke Axle 2 Right	
21			1	Non-Functioning	Brake Stroke - Axle 2 Right - Non-Functioning Actuator
22			0	Over-stroke	Brake Stroke - Axle 2 Right - Over-Stroke
23			7	Dragging Brake	Brake Stroke - Axle 2 Right - Dragging Brake
24			4	Sensor Error	Brake Stroke - Axle 2 Right - Actuator Sensor Fault
25	64881	3789		Tractor Brake Stroke Axle 3 Left	
27			1	Non-Functioning	Brake Stroke - Axle 3 Left - Non-Functioning Actuator
28			0	Over-stroke	Brake Stroke - Axle 3 Left - Over-Stroke
29			7	Dragging Brake	Brake Stroke - Axle 3 Left - Dragging Brake
30			4	Sensor Error	Brake Stroke - Axle 3 Left - Actuator Sensor Fault
31	64881	3790		Tractor Brake Stroke Axle 3 Right	
33			1	Non-Functioning	Brake Stroke - Axle 3 Right - Non-Functioning Actuator
34			0	Over-stroke	Brake Stroke - Axle 3 Right - Over-Stroke
35			7	Dragging Brake	Brake Stroke - Axle 3 Right - Dragging Brake
36			4	Sensor Error	Brake Stroke - Axle 3 Right - Actuator Sensor Fault
37	64881	3791		Tractor Brake Stroke Axle 4 Left	
39			1	Non-Functioning	Brake Stroke - Axle 4 Left - Non-Functioning Actuator
40			0	Over-stroke	Brake Stroke - Axle 4 Left - Over-Stroke
41			7	Dragging Brake	Brake Stroke - Axle 4 Left - Dragging Brake
42			4	Sensor Error	Brake Stroke - Axle 4 Left - Actuator Sensor Fault

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Code #	PGN	SPN	FMI	Definitions	Display Text
43	64881	3792		Tractor Brake Stroke Axle 4 Right	
45			1	Non-Functioning	Brake Stroke - Axle 4 Right - Non-Functioning Actuator
46			0	Over-stroke	Brake Stroke - Axle 4 Right - Over-Stroke
47			7	Dragging Brake	Brake Stroke - Axle 4 Right - Dragging Brake
48			4	Sensor Error	Brake Stroke - Axle 4 Right - Actuator Sensor Fault
49	64881	3793		Tractor Brake Stroke Axle 5 Left	
51			1	Non-Functioning	Brake Stroke - Axle 5 Left - Non-Functioning Actuator
52			0	Over-stroke	Brake Stroke - Axle 5 Left - Over-Stroke
53			7	Dragging Brake	Brake Stroke - Axle 5 Left - Dragging Brake
54			4	Sensor Error	Brake Stroke - Axle 5 Left - Actuator Sensor Fault
55	64881	3794		Tractor Brake Stroke Axle 5 Right	
57			1	Non-Functioning	Brake Stroke - Axle 5 Right - Non-Functioning Actuator
58			0	Over-stroke	Brake Stroke - Axle 5 Right - Over-Stroke
59			7	Dragging Brake	Brake Stroke - Axle 5 Right - Dragging Brake
60			4	Sensor Error	Brake Stroke - Axle 5 Right - Actuator Sensor Fault
61	64881	3795		Trailer Brake Stroke Axle 1 Left	
63			1	Non-Functioning	Trailer Brake Stroke - Axle 1 Left - Non-Functioning Actuator
64			0	Over-stroke	Trailer Brake Stroke - Axle 1 Left - Over-Stroke
65			7	Dragging Brake	Trailer Brake Stroke - Axle 1 Left - Dragging Brake
66			4	Sensor Error	Trailer Brake Stroke - Axle 1 Left - Actuator Sensor Fault
67	64881	3796		Trailer Brake Stroke Axle 1 Right	
69			1	Non-Functioning	Trailer Brake Stroke - Axle 1 Right - Non-Functioning Actuator
70			0	Over-stroke	Trailer Brake Stroke - Axle 1 Right - Over-Stroke
71			7	Dragging Brake	Trailer Brake Stroke - Axle 1 Right - Dragging Brake
72			4	Sensor Error	Trailer Brake Stroke - Axle 1 Right - Actuator Sensor Fault
73	64881	3797		Trailer Brake Stroke Axle 2 Left	
75			1	Non-Functioning	Trailer Brake Stroke - Axle 2 Left - Non-Functioning Actuator
76			0	Over-stroke	Trailer Brake Stroke - Axle 2 Left - Over-Stroke
77			7	Dragging Brake	Trailer Brake Stroke - Axle 2 Left - Dragging Brake
78			4	Sensor Error	Trailer Brake Stroke - Axle 2 Left - Actuator Sensor Fault
79	64881	3798		Trailer Brake Stroke Axle 2 Right	
81			1	Non-Functioning	Trailer Brake Stroke - Axle 2 Right - Non-Functioning Actuator
82			0	Over-stroke	Trailer Brake Stroke - Axle 2 Right - Over-Stroke
83			7	Dragging Brake	Trailer Brake Stroke - Axle 2 Right - Dragging Brake
84			4	Sensor Error	Trailer Brake Stroke - Axle 2 Right - Actuator Sensor Fault
85	64881	3799		Trailer Brake Stroke Axle 3 Left	
87			1	Non-Functioning	Trailer Brake Stroke - Axle 3 Left - Non-Functioning Actuator
88			0	Over-stroke	Trailer Brake Stroke - Axle 3 Left - Over-Stroke
89			7	Dragging Brake	Trailer Brake Stroke - Axle 3 Left - Dragging Brake

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Code #	PGN	SPN	FMI	Definitions	Display Text
90			4	Sensor Error	Trailer Brake Stroke - Axle 3 Left - Actuator Sensor Fault
91	64881	3800		Trailer Brake Stroke Axle 3 Right	
93			1	Non-Functioning	Trailer Brake Stroke - Axle 3 Right - Non-Functioning Actuator
94			0	Over-stroke	Trailer Brake Stroke - Axle 3 Right - Over-Stroke
95			7	Dragging Brake	Trailer Brake Stroke - Axle 3 Right - Dragging Brake
96			4	Sensor Error	Trailer Brake Stroke - Axle 3 Right - Actuator Sensor Fault
97	64881	3801		Trailer Brake Stroke Axle 4 Left	
99			1	Non-Functioning	Trailer Brake Stroke - Axle 4 Left - Non-Functioning Actuator
100			0	Over-stroke	Trailer Brake Stroke - Axle 4 Left - Over-Stroke
101			7	Dragging Brake	Trailer Brake Stroke - Axle 4 Left - Dragging Brake
102			4	Sensor Error	Trailer Brake Stroke - Axle 4 Left - Actuator Sensor Fault
103	64881	3802		Trailer Brake Stroke Axle 4 Right	
105			1	Non-Functioning	Trailer Brake Stroke - Axle 4 Right - Non-Functioning Actuator
106			0	Over-stroke	Trailer Brake Stroke - Axle 4 Right - Over-Stroke
107			7	Dragging Brake	Trailer Brake Stroke - Axle 4 Right - Dragging Brake
108			4	Sensor Error	Trailer Brake Stroke - Axle 4 Right - Actuator Sensor Fault
109	64881	3803		Trailer Brake Stroke Axle 5 Left	
111			1	Non-Functioning	Trailer Brake Stroke - Axle 5 Left - Non-Functioning Actuator
112			0	Over-stroke	Trailer Brake Stroke - Axle 5 Left - Over-Stroke
113			7	Dragging Brake	Trailer Brake Stroke - Axle 5 Left - Dragging Brake
114			4	Sensor Error	Trailer Brake Stroke - Axle 5 Left - Actuator Sensor Fault
115	64881	3804		Trailer Brake Stroke Axle 5 Right	
117			1	Non-Functioning	Trailer Brake Stroke - Axle 5 Right - Non-Functioning Actuator
118			0	Over-stroke	Trailer Brake Stroke - Axle 5 Right - Over-Stroke
119			7	Dragging Brake	Trailer Brake Stroke - Axle 5 Right - Dragging Brake
120			4	Sensor Error	Trailer Brake Stroke - Axle 5 Right - Actuator Sensor Fault
121	65196	1099		Brake Lining Remaining, Axle 1, Left Wheel	
122			18	10% Tractor Brake Lining Remaining	10% Brake Lining Remaining - Axle 1 Left
123			1	0% Tractor Brake Lining Remaining	0% Brake Lining Remaining - Axle 1 Left
124	65196	1100		Brake Lining Remaining, Axle 1, Right Wheel	
125			18	10% Tractor Brake Lining Remaining	10% Brake Lining Remaining - Axle 1 Right
126			1	0% Tractor Brake Lining Remaining	0% Brake Lining Remaining - Axle 1 Right
127	65196	1101		Brake Lining Remaining, Axle 2, Left Wheel	
128			18	10% Tractor Brake Lining Remaining	10% Brake Lining Remaining - Axle 2 Left
129			1	0% Tractor Brake Lining Remaining	0% Brake Lining Remaining - Axle 2 Left
130	65196	1102		Brake Lining Remaining, Axle 2, Right Wheel	
131			18	10% Tractor Brake Lining Remaining	10% Brake Lining Remaining - Axle 2 Right
132			1	0% Tractor Brake Lining Remaining	0% Brake Lining Remaining - Axle 2 Right

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Code #	PGN	SPN	FMI	Definitions	Display Text
133	65196	1103		Brake Lining Remaining, Axle 3, Left Wheel	
134			18	10% Tractor Brake Lining Remaining	10% Brake Lining Remaining - Axle 3 Left
135			1	0% Tractor Brake Lining Remaining	0% Brake Lining Remaining - Axle 3 Left
136	65196	1104		Brake Lining Remaining, Axle 3, Right Wheel	
137			18	10% Tractor Brake Lining Remaining	10% Brake Lining Remaining - Axle 3 Right
138			1	0% Tractor Brake Lining Remaining	0% Brake Lining Remaining - Axle 3 Right
139	65196	1105		Brake Lining Remaining, Axle 4, Left Wheel	
140			18	10% Tractor Brake Lining Remaining	10% Brake Lining Remaining - Axle 4 Left
141			1	0% Tractor Brake Lining Remaining	0% Brake Lining Remaining - Axle 4 Left
142	65196	1106		Brake Lining Remaining, Axle 4, Right Wheel	
143			18	10% Tractor Brake Lining Remaining	10% Brake Lining Remaining - Axle 4 Right
144			1	0% Tractor Brake Lining Remaining	0% Brake Lining Remaining - Axle 4 Right
145	65265	84	16bit	Wheel based vehicle speed	Vehicle Speed
146	65274	116	8 bit	Brake application pressure in kPA	Brake Application Pressure

SAE J1708 Brake Stroke Alert Published Fault Codes		
	Code	SAE Definition
MID	253	Brake Stroke Alert (BSA)
PID	194	Transmitter System Diagnostic Code
FMI	2	Actuator Sensor Fault
	4	Brake Over-Stroke
	7	Dragging Brake
	12	Non-Functioning Brake Actuator
SID	1	Tractor Brake Stroke - Axle 1 Left
	2	Tractor Brake Stroke - Axle 1 Right
	3	Tractor Brake Stroke - Axle 2 Left
	4	Tractor Brake Stroke - Axle 2 Right
	5	Tractor Brake Stroke - Axle 3 Left
	6	Tractor Brake Stroke - Axle 3 Right
	7	Tractor Brake Stroke - Axle 4 Left
	8	Tractor Brake Stroke - Axle 4 Right
	10	Trailer #1 Brake Stroke - Axle 1 Left
	11	Trailer #1 Brake Stroke - Axle 1 Right
	12	Trailer #1 Brake Stroke - Axle 2 Left
	13	Trailer #1 Brake Stroke - Axle 2 Right
	14	Trailer #1 Brake Stroke - Axle 3 Left
	15	Trailer #1 Brake Stroke - Axle 3 Right
	16	Trailer #1 Brake Stroke - Axle 4 Left
	17	Trailer #1 Brake Stroke - Axle 4 Right
	19	Trailer #2 Brake Stroke - Axle 1 Left
	20	Trailer #2 Brake Stroke - Axle 1 Right
	21	Trailer #2 Brake Stroke - Axle 2 Left
	22	Trailer #2 Brake Stroke - Axle 2 Right
	23	Trailer #2 Brake Stroke - Axle 3 Left
	24	Trailer #2 Brake Stroke - Axle 3 Right
	25	Trailer #2 Brake Stroke - Axle 4 Left
	26	Trailer #2 Brake Stroke - Axle 4 Right
	28	Trailer #3 Brake Stroke - Axle 1 Left
	29	Trailer #3 Brake Stroke - Axle 1 Right
	30	Trailer #3 Brake Stroke - Axle 2 Left
	31	Trailer #3 Brake Stroke - Axle 2 Right
	32	Trailer #3 Brake Stroke - Axle 3 Left
	33	Trailer #3 Brake Stroke - Axle 3 Right
	34	Trailer #3 Brake Stroke - Axle 4 Left
	35	Trailer #3 Brake Stroke - Axle 4 Right