



EPB-Series

Interface Specification

Revision History

Revision	Description
1.0	Initial Release

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Overview

This document contains the J1939 interface for the park brake, including all transmitted messages and which messages it must receive from a master ECU to operate properly

J1939 CAN Messages

1.1 Transmission of EPB Status

Transmission of EPB Status			
Description	Transmission of EPB Status		
PF	255		
PS	171		
PGN	65241(0xFFAB) (Customizable)		
Default Priority	6		
DLC	8		
Update Rate	20 ms		
Direction	EPB → CA		
Start	Bits	Name	Notes
1.1	1	EPB Lever Position	0~125: ~100~ 0% 125~250: 0~100% >250: Not Available
2.1	2	EPB Internal Error	0: No error 1: Error 2~3: Not Available
3.1	2	Parking LED Status	0: Off
3.3	2	AH LED Status (Ignore if hardware doesn't exist)	1: ON
3.5	2	TB LED Status (Ignore if hardware doesn't exist)	2~3: Not Available
4.1	2	AH Switch Status (Ignore if hardware doesn't exist)	0: Off
4.3	2	TB Switch Status (Ignore if hardware doesn't exist)	1: ON 2: Error 3: Not Available
5.1	1	Microswitches (Pup and Pdn) status Bit1: Pup-NO1 Bit2: Pup-NO2 Bit3: Pup-NC1 Bit4: Pup-NC2 Bit5: Pdn-NO1 Bit6: Pdn-NO2 Bit7: Pdn-NC1 Bit8: Pdn-NC2	0xCC: Lever is released 0x3C: Lever is pushed down 0xC3: Lever is pulled up Others: Transitional or error
6.5	4	Transmitted message counter	0~15
7.1	2	CRC16 of the first six bytes, Poly:0x8005 Init:0xFFFF	Example: 7D FC C0 F0 CC 1F 72 D9 The CRC16 of the first six bytes is 0xD972

1.2 LED Control

LED Control			
Description	Control the state and brightness of LEDs		
PF	255		
PS	170		
PGN	65241(0xFFAA) (Customizable)		
Default Priority	6		
DLC	8		
Update Rate	Upon commanded		
Direction	CA → EPB		
Start	Bits	Name	Notes
1.1	2	Parking LED Status	0: Off 1: ON 2~3: Don't care
1.3	2	AH LED Status (Ignore if hardware doesn't exist)	
1.5	2	TB LED Status (Ignore if hardware doesn't exist)	
2.1	1	Backlights brightness percentage	0.4%/bit 0-250: normal >250: Don't care
3.1	1	Function lights brightness percentage	
4.1	5	Unused	All bytes set to 255