

Custom J1939 CAN Joystick Messaging Definitions

Part number reference: **LU-14989**

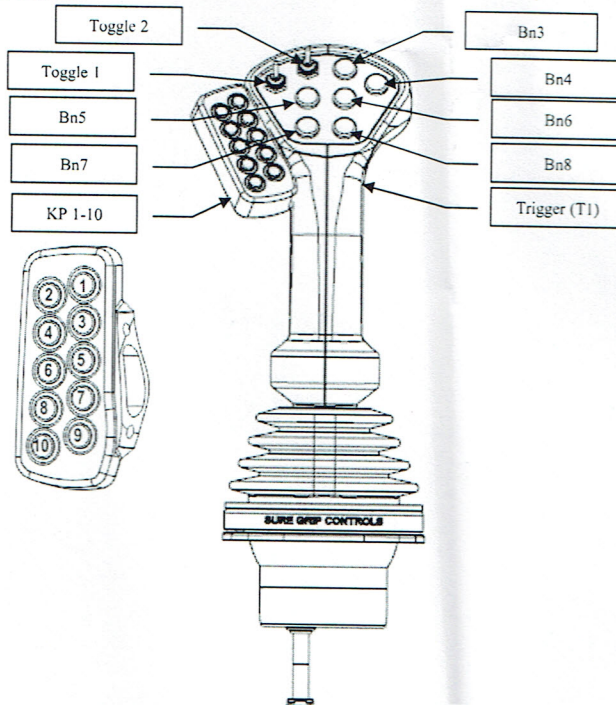
This SAEJ1939 CAN joystick application utilizes:

- BJM1 (Basic Joystick Message 1 - PGN 64982)
- BJM2 (Basic Joystick Message 2 - PGN 64984)

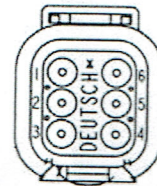
Source address: 0x33 (51 Decimal), Message Rate: 80ms

Function	J1939 Message	Data Field Location
Joystick X+	BJM1 - X-Axis right	[1.7-1.8, 2.1-2.8] 1.5-1.6
Joystick X-	BJM1 - X-Axis left	[1.7-1.8, 2.1-2.8] 1.3-1.4
Joystick Y+	BJM1 - Y-Axis forward	[3.7-3.8, 4.1-4.8] 3.5-3.6
Joystick Y-	BJM1 - Y-Axis backward	[3.7-3.8, 4.1-4.8] 3.3-3.4
Trigger (T1)	BJM1 - Button 10	8.5-8.6
Toggle 1 (Up)	BJM1 - Button 1	6.7-6.8
Toggle 1 (Down)	BJM1 - Button 2	6.5-6.6
Toggle 2 (Up)	(BJM2) - Button 11	8.3-8.4
Toggle 2 (Down)	(BJM2) - Button 12	8.1-8.2
Bn3	BJM1 - Button 3	6.3-6.4
Bn4	BJM1 - Button 4	6.1-6.2
Bn5	BJM1 - Button 5	7.7-7.8
Bn6	BJM1 - Button 6	7.5-7.6
Bn7	BJM1 - Button 7	7.3-7.4
Bn8	BJM1 - Button 8	7.1-7.2
Kp - 1	(BJM2) - Button 1	6.7-6.8
Kp - 2	(BJM2) - Button 2	6.5-6.6
Kp - 3	(BJM2) - Button 3	6.3-6.4
Kp - 4	(BJM2) - Button 4	6.1-6.2
Kp - 5	(BJM2) - Button 5	7.7-7.8
Kp - 6	(BJM2) - Button 6	7.5-7.6
Kp - 7	(BJM2) - Button 7	7.3-7.4
Kp - 8	(BJM2) - Button 8	7.1-7.2
Kp - 9	(BJM2) - Button 9	8.7-8.8
Kp - 10	(BJM2) - Button 10	8.5-8.6

Button locations:



CANbus Connection
Mating Part#: DTM06-6S
Manufacture: Deutsch



Pinout:
1 - Ground.
2 - Power 12-24Vdc.
3 - CAN High
4 - CAN Low
5 - Shield
6 - n/c