

372: Signal description, central electronic module (CEM)

S40 (04-), 2006, B5254T3, M66 AWD, L.H.D

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PRINT

372: Signal description, central electronic module (CEM)

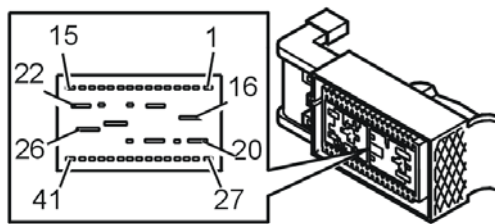
**Signal description
Central Electronic
Module (CEM)**

General

All the values given below are between the connections in column 1 and connection #A28 in column 2 (power ground). This applies unless otherwise indicated in the last column.

Note! It is important to connect the breakout box and check the ground terminals before taking readings.

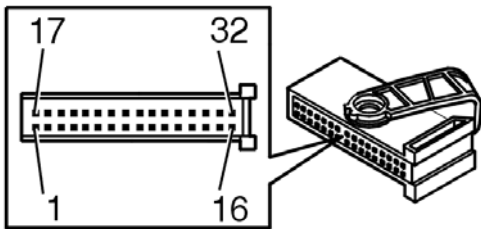
U= DC voltage in volts (V) t = Time in milliseconds (ms)
 U_{bat}= Battery voltage (V) f = Frequency in Hertz (Hz)
 U_{low}= Voltage approximately 0 V % duty Duty cycle (pulse ratio) as a percentage (%)



Connector E, Front-1					
Breakout box terminal	Control module terminal	Signal type	Ignition off Active / Not active	Ignition on Active / Not active	Miscellaneous
# 1	#E1	Transmission control module (TCM), signal supply	U _{bat} at ignition in position II; U _{low} otherwise		
#2	#E2	Electrical power steering module	U _{bat} at ignition in position II; U _{low} otherwise		

		(EPS), signal supply			
#3	#E3	Brake control module (BCM), signal supply	Ubat at ignition in position I; Ulow otherwise		
#4	#E4	Reserve	-	-	
#5	#E5	Reserve	-	-	
#6	#E6	Reserve	-	-	
#7	#E7	Reserve	-	-	
#8	#E8	Windshield washer motor, power supply	Ulow	Ubat/Ulow	
#9	#E9	Reserve	-	-	
#10	#E10	Engine control module (ECM), waking	Ulow	Ubat/Ulow	
#11	#E11	High beam right-hand, power supply	Ulow	Ubat/Ulow	
#12	#E12	Tailgate washer motor, power supply	Ulow	Ubat/Ulow	
#13	#E13	Front left-hand parking lamp, power supply	Ubat/Ulow	Ubat/Ulow	
#14	#E14	Back-up (reversing) lamp, check signal	Ulow	Ulow/Ubat	
#15	#E15	Reserve	-	-	
#16	#E16	Reserve	-	-	
#17	#E17	Reserve	-	-	
#18	#E18	30-supply to the central electronic module (CEM)	Ubat	Ubat	
#19	#E19	Reserve	-	-	
#20	#E20	30-supply to the central electronic module (CEM)	Ubat	Ubat	
#21	#E21	30-supply to the central electronic module (CEM)	Ubat	Ubat	
#22	#E22	30-supply to the central electronic module (CEM)	Ubat	Ubat	
#23	#E23	30-supply to the central electronic module (CEM)	Ubat	Ubat	
#24	#E24	Reserve	-	-	
#25	#E25	Low beam left, power supply	Ubat/Ulow	Ubat/Ulow	
#26	#E26	Reserve	-	-	
#27	#E27	Full beam left, power supply	Ulow	Ubat/Ulow	
#28	#E28		Ulow/Ulow	Ulow/Ubat	

		Stop lamp switch, power supply			
#29	#E29	Gas discharge lamp module (GDL), power supply	Ulow	Ulow/Ubat	
#30	#E30	Reserve	-	-	
#31	#E31	Reserve	-	-	
#32	#E32	Reserve	-	-	
#33	#E33	Reserve	-	-	
#34	#E34	Reserve	-	-	
#35	#E35	Reserve	-	-	
#36	#E36	Siren, power supply	Ubat	Ubat	
#37	#E37	Low beam right-hand, power supply	Ulow	Ubat/Ulow	
#38	#E38	Front left-hand turn signal lamp, power supply	Ulow	Ubat-Ulow/Ulow	Pulse width modulation (PWM) signal
#39	#E39	Front right-hand turn signal lamp, power supply	Ulow	Ubat-Ulow/Ulow	Pulse width modulation (PWM) signal
#40	#E40	Stop lamp switch, check signal to ECM	Ubat/Ulow	Ubat/Ulow	
#41	#E41	Stop lamp switch, control signal	Ubat/Ulow	Ubat/Ulow	

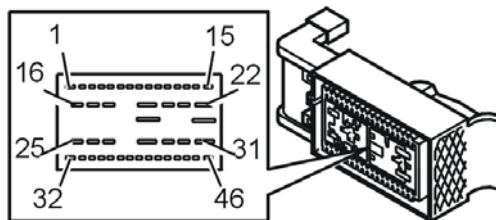


Connector G, Front-2

Breakout box terminal	Control module terminal	Signal type	Ignition off Active / Not active	Ignition on Active / Not active	Miscellaneous
#1	#G1	Communication LIN bus 3	During communication the voltage is 0V - Ubat		Siren control module (SCM)
#2	#G2	Front right-hand parking lamp, power supply	Ubat/Ulow	Ubat/Ulow	
#3	#G3	Communication LIN bus 9	During communication the voltage is 0V - Ubat		WMM
#4	#G4	Reserve	-	-	
#5	#G5	Reserve	-	-	
#6	#B6	Battery temperature sensor, ground	Ulow	Ulow	The battery temperature gauge removed from and including

					structure week 200605
#7	#G7	Accelerator pedal (AP) position sensor, check signal	Ulow	Ulow	
#8	#G8	Reserve	-	-	
#9	#G9	Relay, front fog lamp, control signal	Ubat	Ulow/Ubat	
#10	#G10	Reserve	-	-	
#11	#G11	Relay, headlamp wash / wipe, control signal	Ubat	Ulow/Ubat	
#12	#G12	Clutch pedal sensor, check signal	Ulow	Ulow	
#13	#G13	Battery temperature sensor, signal	Ulow	U=0V-5V	The battery temperature gauge removed from and including structure week 200605
#14	#G14	Communication CAN_L high speed network	The voltage is 1.5-2.5 V during communication		Electrical power steering module (EPS) / Brake control module (BCM) / Body sensor cluster (BSC) / Transmission control module (TCM) / Integrated Starter Generator (ISG)
#15	#G15	Communication CAN_H high speed network	The voltage is 2.0-3.5 V during communication		Electrical power steering module (EPS) / Brake control module (BCM) / Body sensor cluster (BSC) / Transmission control module (TCM) / Integrated Starter Generator (ISG)
#16	#G16	Communication CAN_H low speed network	The voltage is 2-3.5 V during communication		Combustion preheater module (CPM)
#17	#G17	Reserve	-	-	
#18	#G18		Ulow/Ubat	Ulow/Ubat	

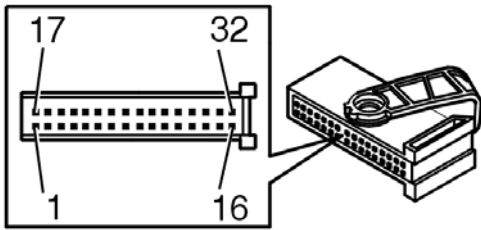
		Relay, horn, control signal			
#19	#G19	Hood switch	Ulow with the hood closed Ulow-Ubat with the hood open		Pulsed signal, f=100Hz
#20	#G20	Reserve	-	-	
#21	#G21	Clutch pedal sensor, power supply	Ulow	U=5 V	
#22	#G22	Accelerator pedal (AP) position sensor, power supply	Ulow	U=5 V	
#23	#G23	Clutch pedal sensor, power supply	Ulow	U=0.15-4.75V	
#24	#G24	Clutch pedal sensor, power supply	Ulow	Ulow/Ubat	I4-motor
#25	#G25	Reserve	-	-	
#26	#G26	Communication LIN bus 2	During communication the voltage is 0V - Ubat		Xenon lamps (GDL)
#27	#G27	Switch, brake fluid level	Ulow at normal level; Ubat at low level		
#28	#G28	Switch, washer fluid level	Ulow at normal level; Ubat at levels below 0.7 liters		
#29	#G29	Reserve	-	-	
#30	#G30	Engine control module (ECM), collision signal	Ulow/Ubat	Ulow/Ubat	Diesel only
#31	#G31	Accelerator pedal (AP) position sensor, check signal	Ulow	U=0.15-4.85V	
#32	#G32	Communication CAN L low speed network	The voltage is 1.5-2.5 V during communication		Combustion preheater module (CPM)



Connector A, Cockpit-1					
Breakout box terminal	Control module terminal	Signal type	Ignition off Active / Not active	Ignition on Active / Not active	Miscellaneous
#1	#A1	Dimmer, check signal	Ulow	Ulow-Ubat	
#2	#A2	Reserve	-	-	
#3	#A3	Positive temperature	Ubat at ignition in position II; Ulow otherwise		

		coefficient (PTC) heater, signal supply			
#4	#A4	Data link connector (DLC), power supply	Ubat	Ubat	
#5	#A5	Reserve	-	-	
#6	#A6	Reserve	-	-	
#7	#A7	Reserve	-	-	
#8	#A8	Phone module (PHM), power supply	Ulow	Ubat	
#9	#A9	Multimedia module (MMM) display, power supply	Ulow	Ubat	
#10	#A10	Supplemental restraint system module (SRS), 15-power supply	Ulow	Ubat	
#11	#A11	Reserve	-	-	
#12	#A12	Reserve	-	-	
#13	#A13	Reserve	-	-	
#14	#A14	CEM, signal ground	Ulow	Ulow	
#15	#A15	S-supply (Power supply from ignition switch)	Ulow (Key out), Ubat (key in)		
#16	#A16	X-supply to passenger compartment, power supply	Ubat at ignition in positions I and II; Ulow otherwise		
#17	#A17	15-supply (Power supply from ignition switch)	Ubat (Key in positions II and III); Ulow otherwise		
#18	#A18	Steering wheel module (SWM), power supply	Ubat	Ubat	
#19	#A19	Audio module (AUD), 30-supply	Ubat	Ubat	
#20	#A20	Reserve			
#21	#A21	Climate control module (CCM), infotainment control module (ICM), power supply	Ulow	Ubat	
#22	#A22	Reserve	-	-	
#23	#A23	Cigarette lighter, power supply	Ubat	Ubat	
#24	#A24	Reserve	-	-	
#25	#A25	Courtesy lighting, power supply	Ubat/Ulow	Ubat/Ulow	
#26	#A26	Reserve	-	-	
#27	#A27	Reserve	-	-	
#28	#A28	Power ground	Ulow	Ulow	

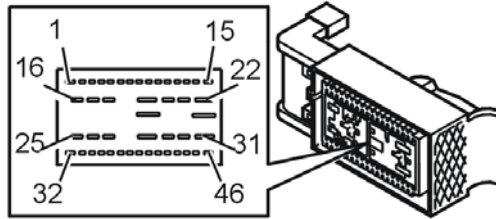
#29	#A29	Multimedia module (MMM), power supply	Ulow	Ubat	
#30	#A30	X-supply (Power supply from the ignition switch)	Ubat (Key in positions I and II); Ulow otherwise		
#31	#A31	Reserve	-	-	
#32	#A32	LED front fog lamp, ground	Ubat	Ulow	
#33	#A33	Phone module (PHM), collision signal	Airbag not triggered = Ubat-8V Airbag triggered= Pulse 1-0.6V below 200ms		
#34	#A34	Fuel tank filler cover switch, check signal	Ulow	Ubat/Ulow	
#35	#A35	Remote receiver (RRX), signal	During communication the voltage is 0V - Ubat		
#36	#A36	Reserve	-	-	
#37	#A37	Reserve	-	-	
#38	#A38	Driver information module (DIM) / glove compartment lighting, power supply	Ubat (Key in positions I and II); Ulow otherwise		
#39	#A39	Back-up gear inhibitor, control signal	Ubat at speeds above 25 km/h; Ulow at speeds below 15 km/h		Manual 6-speed transmission
#40	#A40	Light switch, power supply	Ubat	Ubat	
#41	#A41	Remote receiver (RRX), voltage feed	Ubat	Ubat	
#42	#A42	50-supply (Power supply from ignition switch)	Ubat (Key in position III); Ulow otherwise		
#43	#A43	Supplemental restraint system module (SRS), X-power supply	Ubat (Key in positions I and II); Ulow otherwise		
#44	#A44	Climate control system motors and sensors, power supply	Ulow	Ubat	
#45	#A45	Steering wheel module (SWM), power supply	Ubat (Key in positions I and II); Ulow otherwise		
#46	#A46	Reserve	-	-	



Connector B, Cockpit-2					
Breakout box terminal	Control module terminal	Signal type	Ignition off Active / Not active	Ignition on Active / Not active	Miscellaneous
#1	#B1	Positive temperature coefficient (PTC) heater, control signal	Ulow	Ubat-Ulow/Ulow	Pulse width modulation (PWM) signal
#2	#B2	Light switch, control signal	Ulow/Ubat	Ulow/Ubat	Light switch in position 1
#3	#B3	Lamp, switch, hazard warning signal flashers, power supply	Ubat-Ulow if activated; Ulow otherwise		
#4	#B4	Light switch, control signal	Ulow/Ubat	Ulow/Ubat	Light switch in position 0
#5	#B5	Alarm LED, power supply	Alarm activated: 5V 0.5Hz 5% duty Alarm triggered: 5V 4Hz 25% duty		Pulse width modulation (PWM) signal
#6	#B6	Rear fog lamp LED in light switch, power supply	Ulow	Ubat/Ulow	
#7	#B7	Reserve	-	-	
#8	#B8	Communication CAN_H low speed network	The voltage is 2-3.5 V during communication		Infotainment control module (ICM) / Driver information module (DIM)
#9	#B9	Communication CAN L low speed network	The voltage is 1.5-2.5 V during communication		Infotainment control module (ICM) / Driver information module (DIM)
#10	#B10	Steering column lock module (SCL), power supply	Ubat approx. one second after the key has been inserted or removed; Ulow otherwise		
#11	#B11	Diagnostic communication (CAN H) for the high speed network	The voltage is 2.0-3.5 V during communication		
#12	#B12	Diagnostic communication (CAN_L) for the high speed network	The voltage is 1.5-2.5 V during communication		

#13	#B13	Key lock ignition switch, control signal	Ulow when key approved; Ubat otherwise		
#14	#B14	Malfunction indicator lamp (MIL), power supply	Ulow	Ubat/Ulow	
#15	#B15	Diagnostic communication (CAN_L) for the low speed network	The voltage is 1.5-2.5 V during communication		
#16	#B16	Diagnostic communication (CAN_H) for the low speed network	The voltage is 2.0-3.5 V during communication		
#17	#B17	Communication LIN bus 2	During communication the voltage is 0V - Ubat		Steering column lock module (SCL) / start control module (SCU)
#18	#B18	Blower fan motor, control signal	Blower fan activated: Ubat f=400Hz 16-95% duty		Pulse width modulation (PWM) signal
#19	#B19	Switch hazard warning signal flashers, control signal	Ulow/Ubat	Ulow/Ubat	
#20	#B20	Reserve	-	-	
#21	#B21	Dimmer, control signal	Ulow	Ubat/Ulow	
#22	#B22	Switch, rear fog lamp, control signal	Ulow/Ubat	Ulow/Ubat	
#23	#B23	Switch, front fog lamp, control signal	approx. 6-7V /Ubat	approx. 6-7V /Ubat	
#24	#B24	Communication CAN_H low speed network	The voltage is 2-3.5 V during communication		Phone module (PHM)
#25	#B25	Communication CAN L low speed network	The voltage is 1.5-2.5 V during communication		Phone module (PHM)
#26	#B26	Switch horn, check signal	Ulow/Ubat	Ulow/Ubat	
#27	#B27	Switch privacy lock, check signal	Ubat	Ulow/Ubat	
#28	#B28	Sun sensor, ground	Ulow	Ulow	
#29	#B29	Twilight sensor	Ulow	U=5 V	
#30	#B30	Sun sensor, check signal	Ulow	U=0.25-4.75V	
#31	#B31	Switch high beam flash, check signal	Ubat	Ulow/Ubat	
#32	#B32	Blower fan motor, check signal	Fan OK and active: Amplitude = Ubat, f = 80 - 600 Hz, 50 % duty. Fan OK, but input signal outside tolerance: Amplitude		Pulse width modulation (PWM) signal

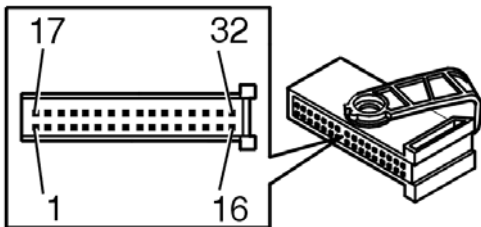
		= Ubat, f = 12.5 Hz, 50 % duty. Fan OK, but not active: Amplitude = Ubat, f = 0Hz, 100 % duty.
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Connector C, Floor-1					
Breakout box terminal	Control module terminal	Signal type	Ignition off Active / Not active	Ignition on Active / Not active	Miscellaneous
#1	#C1	Switch parking brake, check signal	Ubat	Ulow/Ubat	
#2	#C2	Fuel tank filler cover, control signal	Ubat/Ulow	Ubat/Ulow	
#3	#C3	Left-hand stop lamp, power supply	Ubat/Ulow	Ubat/Ulow	
#4	#C4	Right-hand stop lamp, power supply	Ubat/Ulow	Ubat/Ulow	
#5	#C5	Reserve	-	-	
#6	#C6	Rear fog lamp, power supply	Ulow	Ubat/Ulow	
#7	#C7	High level stop lamp, power supply	Ubat/Ulow	Ubat/Ulow	
#8	#C8	Unlocking tailgate, control signal	Ulow	Ubat/Ulow	
#9	#C9	Rear left-hand turn signal lamp, power supply	Ulow	Ubat-Ulow/Ulow	Pulse width modulation (PWM) signal
#10	#C10	Rear right-hand turn signal lamp, power supply	Ulow	Ubat-Ulow/Ulow	Pulse width modulation (PWM) signal
#11	#C11	Reserve	-	-	
#12	#C12	Rear right-hand parking lamp, power supply	Ubat/Ulow	Ubat/Ulow	
#13	#C13	License plate lighting, power supply	Ubat/Ulow	Ubat/Ulow	
#14	#C14	Rear left-hand parking lamp, power supply	Ubat/Ulow	Ubat/Ulow	
#15	#C15	Reserve	-	-	
#16	#C16	Fuel pump (FP), power supply	Ulow	Ubat/Ulow	
#17	#C17	Subwoofer module (SUB), power supply	Ulow	Ubat/Ulow	

#18	#C18	Rear seat belt buckle, X-supply	Ulow	Ubat	
#19	#C19	Reserve	-	-	
#20	#C20	Cargo compartment lighting and power seat, power supply	Ubat/Ulow	Ubat/Ulow	Supply from relay, interior lighting
#21	#C21	Left-hand rear door module (LDM), power supply	Ubat	Ubat	
#22	#C22	12 V output cargo compartment, power supply	Ubat	Ubat	
#23	#C23	Audio module (AUD), power supply	Ubat	Ubat	
#24	#C24	Passenger door module (PDM), power supply	Ubat	Ubat	
#25	#C25	Reserve	-	-	
#26	#C26	Reserve	-	-	
#27	#C27	Right-hand rear door module (RDM), power supply	Ubat	Ubat	
#28	#C28	Relay, rear windshield defroster, control signal	Ulow	Ubat/Ulow	
#29	#C29	Passenger power seat module (PSM), power supply	Ubat	Ubat	
#30	#C30	Power seat module (PSM), power supply	Ubat	Ubat	
#31	#C31	Driver door module (DDM), power supply	Ubat	Ubat	
#32	#C32	Keyless vehicle module (KVM), signal	At communication the voltage is Ubat-(1-1.5) V		
#33	#C33	Rear windshield wiper, power supply	Ubat	Ubat	
#34	#C34	Rear windshield wiper, control signal	Ulow	Ubat/Ulow	Signal from relay, rear windshield wiper
#35	#C35	Reserve	-	-	
#36	#C36	Reserve	-	-	
#37	#C37	Occupant weight sensor (OWS), power supply	Ubat	Ubat	
#38	#C38	Tow hitch and back-up (reversing) warning, power supply	Ulow	Ubat	

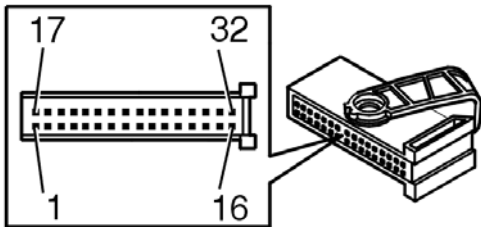
#39	#C39	Differential electronic module (DEM), power supply	Ulow	Ubat	
#40	#C40	Audio module (AUD), power supply	Ubat at key in positions I and II; Ulow otherwise		Power supply from Relay, infotainment
#41	#C41	Keyless vehicle module (KVM), power supply	Ubat	Ubat	
#42	#C42	Passenger seat heater, power supply	Ubat	Ubat	Power supply from relay, comfort
#43	#C43	Driver seat heater, power supply	Ubat	Ubat	Power supply from relay, comfort
#44	#C44	Antenna module (ATM), power supply	Ubat	Ubat	
#45	#C45	Back-up (reversing) lamp, power supply	Ulow	Ubat/Ulow	Power supply from relay, back-up (reversing) lamp
#46	#C46	Reserve	-	-	



Connector F, Floor-2					
Breakout box terminal	Control module terminal	Signal type	Ignition off Active / Not active	Ignition on Active / Not active	Miscellaneous
#1	#F1	Rear left-hand seat belt buckle sensor, check signal	Ulow	4-5V/0-1V	
#2	#F2	Rear center seat belt buckle sensor, check signal	Ulow	4-5V/0-1V	
#3	#F3	Rear right-hand seat belt buckle sensor, check signal	Ulow	4-5V/0-1V	
#4	#F4	Reserve	-	-	
#5	#F5	Fuel level sensor pump side, check signal	Ulow	U=0.5-4V	Full: 0.5V Empty: 4V
#6	#F6	Reserve	-	-	
#7	#F7	Fuel level sensor, common ground	Ulow	Ulow	
#8	#F8	Reserve	-	-	

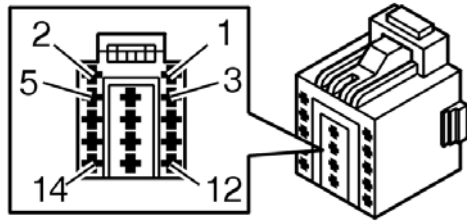
#9	#F9	Fuel level sensor AWD, ground	Ulow	Ulow	AWD
#10	#F10	Reserve	-	-	
#11	#F11	Reserve	-	-	
#12	#F12	Collision	Activated = 2-8V Not activated = 8-12V		
#13	#F13	Input signal seat belt reminder passenger	Ulow	U=0-5V	Oscillating signal in 3 phases
#14	#F14	Communication CAN_L high speed network	The voltage is 1.5-2.5 V during communication		Steering wheel module (SWM) / Differential electronic module (DEM)
#15	#F15	Communication CAN L low speed network	The voltage is 1.5-2.5 V during communication		Supplemental restraint system module (SRS) / Driver door module (DDM) / Passenger door module (PDM)
#16	#F16	Communication CAN_H high speed network	The voltage is 2.0-3.5 V during communication		Steering wheel module (SWM) / Differential electronic module (DEM)
#17	#F17	Input/output signal seat belt reminder passenger	Ulow	U=0-5V	Oscillating signal in 3 phases
#18	#F18	Switch passenger door, check signal	Ubat if the door is open; Ulow otherwise		
#19	#F19	Switch driver's door, check signal	Ubat if the door is open; Ulow otherwise		
#20	#F20	Switch right-hand rear door, check signal	Ubat if the door is open; Ulow otherwise Applies to C30: Ubat		Applies to C30: tampering protection for cable harness in tailgate
#21	#F21	Switch left-hand rear door, check signal	Ubat if the door is open; Ulow otherwise Applies to C30: Ulow		Applies to C30: glass wire in rear window
#22	#F22	Handle tailgate, check signal	Ulow/Ubat	Ulow/Ubat	Grounded when the tailgate handle is pressed in.
#23	#F23	Reserve	-	-	
#24	#F24	Switch tailgate, check signal	Ubat if the tailgate is open; Ulow otherwise		
#25	#F25	Fuel level sensor ejector side, check signal	Ulow	U=0.5-4V	Full: 0.5V Empty: 4V (AWD)
#26	#F26	Reserve	-	-	
#27	#F27	Reserve	-	-	
#28	#F28	Outside temperature	Ulow	Ulow	

		sensor, signal ground			
#29	#F29	Reserve	-	-	
#30	#F30	Communication CAN_H low speed network	The voltage is 2.0-3.5 V during communication		Supplemental restraint system module (SRS) / Driver door module (DDM) / Passenger door module (PDM)
#31	#F31	Outside temperature sensor, check signal	Ulow	U=0.5-4V	
#32	#F32	Reserve	-	-	



Connector H, Roof-2					
Breakout box terminal	Control module terminal	Signal type	Ignition off Active / Not active	Ignition on Active / Not active	Miscellaneous
#15	#H1	LED seat belt reminder, power supply	Ulow	Ubat/Ulow	
#16	#H2	LED reduced alarm position, power supply	Ulow	Ubat/Ulow	
#17	#H3	Remote Keyless Entry (RKE), signal	At communication the voltage is Ubat-(1-1.5) V		
#18	#H4	Roof console and sun roof motor, power supply	Ubat	Ubat	
#19	#H5	Automatic anti-glare door mirror inhibitor, control signal	Ulow	Ubat/Ulow	
#20	#H6	Remote Keyless Entry (RKE), power supply	Ubat	Ubat	
#21	#H7	Rain sensor module (RSM), power supply	Ubat	Ubat	
#22	#H8	Communication CAN_H low speed network	The voltage is 2.0-3.5 V during communication		AEM
#23	#H9	Reserve	-	-	
#24	#H10	Reserve	-	-	
#25	terminal #H11	Reserve	-	-	

#26	terminal #H12	Reserve	-	-	
#27	terminal #H13	Reserve	-	-	
#28	#H14	Reserve	-	-	
#29	#H15	Reserve	-	-	
#30	#H16	Reserve	-	-	
#31	#H17	Mass movement sensor (MMS) or movement sensor (IMS) (IMS replaces MMS for S40, C30, and V50 from and incl. model year 2012), communication signal	Ulow-Ubat	Ulow-Ubat	Communication with both MMS or movement sensor (IMS) (IMS replaces MMS for S40, C30, and V50 from and incl. model year 2012), for 5DRS
#32	#H18	Control signal, comfort closing	Ulow	Ulow/Ubat	
#33	#H19	Switch reduced alarm position, control signal	Ubat	Ulow/Ubat	
#34	#H20	Control signal, sun roof	Ulow	Ubat-Ulow/Ulow	$f=1.381 \cdot \text{speed}$ (Km/h), 50% pulse ratio.
#35	#H21	Mass movement sensor (MMS) or movement sensor (IMS) (IMS replaces MMS for S40, C30, and V50 from and incl. model year 2012), voltage feed	Ubat/Ulow	Ubat/Ulow	Feeds voltage to both MMS or movement sensor (IMS) (IMS replaces MMS for S40, C30, and V50 from and incl. model year 2012), for 5DRS.
#36	#H22	PAD warning lamp, power supply	Ulow	Ubat/Ulow	
#37	#H23	Communication LIN bus 9	During communication the voltage is 0V - Ubat		Rain sensor module (RSM)
#38	#H24	Communication CAN L low speed network	The voltage is 1.5-2.5 V during communication		AEM
#39	#H25	Reserve	-	-	
#40	#H26	Reserve	-	-	
#41	#H27	Reserve	-	-	
#42	#H28	Reserve	-	-	
#43	#H29	Reserve	-	-	
#44	#H30	Reserve	-	-	
#45	#H31	Reserve	-	-	
#46	#H32	Reserve	-	-	



Connector D, Roof-1					
Breakout box terminal	Control module terminal	Signal type	Ignition off Active / Not active	Ignition on Active / Not active	Miscellaneous
#1	#D1	Reserve	-	-	
#2	#D2	Reserve	-	-	
#3	#D3	Roof lighting, return cable	Ulow	Ulow	
#4	#D4	Dimmer, check signal	Ulow	Ulow-Ubat	
#5	#D5	High level stop lamp, power supply	Ubat/Ulow	Ubat/Ulow	4 door
#6	#D6	Reserve	-	-	
#7	#D7	Roof lighting, power supply	Ubat/Ulow	Ubat/Ulow	
#8	#D8	Reserve	-	-	
#9	#D9	Accessory electronic module (AEM) ground	Ulow	Ulow	
#10	#D10	Mass movement sensor (MMS) or movement sensor (IMS) (IMS replaces MMS for S40, C30, and V50 from and incl model year 2012), rain sensor (RSM) and Remote Keyless Entry (RKE), ground	Ulow	Ulow	
#11	#D11	Reserve	-	-	
#12	#D12	Roof console and sun roof, ground	Ulow	Ulow	
#13	#D13	Reserve	-	-	
#14	#D14	Sun roof control module, power supply	Ubat (for 5 minutes only according to the conditions on the right)	Ubat	Active when the ignition is off and neither of the front doors have been opened

30/4/2022

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