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Coding Information

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Title: J1939 Data Link Source Address Information

Applies To: All Vehicles

Change Log

Dealers: Please refer to the change log text box below for recent changes to this article:

9/26/2024 - Added SA 26, 39, 62, 75, 80, 143, 148, 216, 223, 224, and 252. Revised chassis types in electrical architecture feature code list.

11/21/2023 - Added SA 149

11/14/2023 - Added SA 225,226,227,228,229,230,231,232

08/09/2023 - Added SA 46, 48, 78, 83, 90, 128, 129, 130, 168, 169, 176, 179, 181, 182, 186, 187, 188, 189, 190, 202, 239, 242 and 243.

Electrical Architecture Feature Codes

The feature code can be found in the Vehicle Information - Components tab. [Click Here](#) to enter a chassis number.

Electrical Architecture	Feature Code - Description	Chassis Type
500k Phase 2	0508097 - ELEC SYS MUX COMMON ARCHITECTURE for Electrical Common Architecture System	Example: LT, RH, HX (2020 and newer), HV, MV, CE Bus (2024 and newer); (All Have Green Diagnostic Connector)
500k Non Multiplex	0508096 - ELECTRICAL SYSTEM VCM FUNCTIONS NON-MUX for Vehicle Control Module Functions, for Non-Multiplexed Vehicles	Example: HX (2020 and older), PayStar, 9900 (With Green Diagnostic Connector)
500k Phase 1	0508095 - ELECTRICAL SYSTEM ENHANCED VCM FUNCTIONS for VCM Enhanced Functions	Example: ProStar, WorkStar, DuraStar, CE Bus (With Green Diagnostic Connector before 2024)
250k	0508051 - ELECTRICAL SYSTEM MUX FOR BC PROG ONLY for Body Controller (BC PROG) only	Example: ProStar, WorkStar, DuraStar, CE Bus (With Black Diagnostic Connector)

J1939 Source Address Information

Source Address (SA)	Module Name	Notes	Related iKNow
00	Engine ECM	VCU on EV	
03	TCM	VCU on EV	
05	Transmission Shift Selector	Also called the Gear Selection Module	
11	ABS ECU		
15	Retarder	ECM Generated. There is no physical module present, the ECM is broadcasting this source address	
17	Cruise Control	PCC - Predictive Cruise Control (broadcasted from the N2 telematics module if the vehicle is equipped with it)	
19	Lane Keep Assist ECU		
23	Electronic Gauge Cluster (EGC/IPC)		

25	Front HVAC Control Head	Can also be called an HVAC control module.	
26	Smart Alternator		
28	Compass	This module will intermittently display on a data link sniffer. The source address number flashing off and on is normal.	
33	Body Controller / ESC	MSM on PayStar and RE/FE Bus	
39	Powertrain Interface Module (PIM)	Used on S13 vehicles	
40	VID - DID	Vehicle Information Display / Driver Information Display	IK0800208
41	Retarder, Exhaust, Engine #1	ECM Generated	
42	Headway Controller	Collision Mitigation System (Bendix Wingman / Wabco OnGuard) Forward Facing Radar	IK0400080 - Bendix IK1300094 - Wabco
46	Electric Power Steering	Typically only on EVs.	
47	Active Ride Height Control Module		
48	Electric Air Brake Compressor	Typically only on EVs.	
51	Tire Pressure Monitor System (TPMS)	SmarTire	IK0400080
55	Lighting Control Module (LCM)	Used on 500k Phase 2 only	
58	Rear HVAC	Standard or No-Idle System. This module is on the Private BodyBuilder data link. However, you may see fault codes from this source address in the Body Controller This module moved to the 250k Cab data link on 500k Phase 2 vehicles	
61	Exhaust Emissions Controller	DCU - Doser Control Unit (N9/N10 engines only)	
62	Wabco ABS ECU		
74	Telematics	Includes N2 module	
75	Telematics	If the N2 module cannot claim source address 74 (potentially because a	

		customer installed device has already claimed it) the N2 will claim source address 75.	
76	Radio	Cab Radio	IK0800475
78	Radiator Fan Control	Typically only on EVs.	
80	Dash Electronic Control Unit (DECU)	Part of the Bendix Intellipark system	
83	Air Bag Module		
84	Sleeper Radio	Sleeper Audio Control	
85	Aftertreatment Control Module (ACM)		
90	Vehicle Control Unit/ Gateway (VCU)	Typically only on EVs.	
128	Omnitracks/Samsara Devices	Aftermarket telematics.	
128	On Board Charging Interface (OCI)	Only on EVs.	
129	A/C Compressor Inverter Module	Typically only on EVs.	
130	Supervisory Control Unit (SCU)	Typically only on EVs.	
132	Auxillary Gauge Switch Pack (AGSP3)	Mounted at the top right of the center panel. Most switches in the center panel will use J1708 data link. However the AGSP uses J1939	
139	Iteris		IK0400080
142	Qualcomm / People Net Translator Box		IK0800310
143	Transmission Shift Actuator Module (TSA)	Used on models with an Allison 1000/2000 series transmission with a stalk shifter.	
144	Blindspot Radar		
148	DASCM module(Blind Spot Detection Module)		
149	Pyrometer/Ammeter Module (PAM)		
150	Stand Alone Real Time Clock (SART)		IK0800364
151	Center Panel MUX Switch Pack #1	Used on 500k Phase 2 only (Private J1939 125k Baud)	

152	Center Panel MUX Switch Pack #2	Used on 500k Phase 2 only (Private J1939 125k Baud)	
153	Center Panel MUX Switch Pack #3	Used on 500k Phase 2 only (Private J1939 125k Baud)	
154	Center Panel MUX Switch Pack #4	Used on 500k Phase 2 only (Private J1939 125k Baud)	
155	Center Panel MUX Switch Pack #5	Used on 500k Phase 2 only (Private J1939 125k Baud)	
160	Wabco OnGuard Radar	Collison Mitigation System	
167	Secondary Instrument Cluster (SIC)	Mounted above the center panel	
168	Forward Lighting Module Left	Smart LED headlight (first used on the 2022MY MV)	
169	Forward Lighting Module Right	Smart LED headlight (first used on the 2022MY MV)	
172	Offboard Diagnostics	EzTech Laptop	
176	DC to DC Converter 2	Typically only on EVs.	
179	DC to DC Converter 1	Typically only on EVs.	
181	Electric Motor Pump (Coolant Pump) Power Electronics 1	Typically only on EVs.	
182	Electric Motor Pump (Coolant Pump) 2	Typically only on EVs.	
186	High Voltage Distribution Module (HVDM) Stat Traction Power Inverter Module TPIM - SCE	Only on EVs.	
187	High Voltage Distribution Module (HVDM) Stat High Voltage Power Distribution Unit HVDU - SCE	Only on EVs.	
188	High Voltage Distribution Module (HVDM) Stat DC/ Charge DCFC - SCE	Only on EVs.	
189	High Voltage Distribution Module (HVDM) Stat A/C Compressor Module (Variable Speed) Front AC-F (VFD) -SCE	Only on EVs.	
190	High Voltage Distribution Module (HVDM) Stat A/C Compressor	Only on EVs.	

	Module (Variable Speed) Rear AC-R (VFD)- SCE		
202	Battery Thermal Management System (BTMS)	Only on EVs.	
209	Safety Direct Processor (SDP) Module	Part of Bendix Fusion System. Located in the headliner above the windshield camera	
216	Electronic Lift Axle Module (ELAM)		
223	Door Motor Control Module 1	Forward Entrance Door Motor Control on CE Bus with electric entrance door.	
224	Door Motor Control Module 2	Aft Entrance Door Motor Control on CE Bus with electric entrance door.	
225	Remote Power Module (RPM) #1		
226	Remote Power Module (RPM) #2		
227	Remote Power Module (RPM) #3		
228	Remote Power Module (RPM) #4		
229	Remote Power Module (RPM) #5		
230	Remote Power Module (RPM) #6		
231	Remote Power Module (RPM) #7		
232	Remote Power Module (RPM) #8		
232	PAM Module or Lane Departure Warning (LDW) Module		
232	Lane Departure Warning (LDW) Camera *With Fusion		
233	Left Rear Door Pod	Used on 500k Phase 2 only (Private J1939 125k Baud)	
234	Right Rear Door Pod	Used on 500k Phase 2 only (Private J1939 125k Baud)	
236	Driver Front Door Pod	Used on 500k Phase 2 only (Private J1939 125k Baud)	
237	Passenger Front Door Pod	Used on 500k Phase 2 only (Private J1939 125k Baud)	
239	Hybrid System		

239	Traction Power Inverter Module (TPIM)	Only on EVs.	
242	Intellipark		
243	Battery Management System (BMS)	Only on EVs.	
249	Service Tool	EzTech Laptop	
252	Vehicle Road Grade Sensor		
254 / 255	Source Address Request		

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