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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:

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.
11/16/2022 - Added SA 84 and 144
02/10/2022 - Added SA 19
08/24/2020 - No content change. Addressed question on telematics device, which is already listed at SA 74
01/13/2020 - Question on SA 12. No modules we use are assigned SA 12. No content change.

Electrical Architecture Feature Codes

The feature code can be found in Vehicle Information - Components tab. <u>Click Here</u> 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, HV, MV (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, 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)
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 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	
19	Lane Keep Assist ECU		
23	Electronic Gauge Cluster (EGC/IPC)		
25	Front HVAC Control Head	Can also be called HVAC control	

		module.	
28	Compass	This module will intermittenly 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	
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.	
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 Public data link on 500k Phase 2 vehicles	
61	Exhaust Emissions Controller	DCU - Doser Control Unit (N9/N10 engines only)	
74	Telematics	Includes N2 module	
76	Radio	Cab Radio	IK0800475
78	Radiator Fan Control	Typically only on EVs.	
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	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 top right of 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
144	Blindspot Radar		
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 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 Crompressor Module (Variable Speed) Rear AC-R (VFD)- SCE	Only on EVs.	
202	Battery Thermal Management System (BTMS)	Only on EVs.	
209	Safety Direct Processor (SDP) Module	Part of Bendix Fusion System. Located in headliner above the windshield camera	
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	
254 / 255	Source Address Request		