## VolWPAGE& D13 A Wiring Diagram Link J1939

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Chassis ID	Path /Diagnostics/FM, CHID CKD882147-/Data links, fault tracing
Model	Identity 119792982
<b>Publish date</b> Thursday, 2 October 2008	Operation No.

## Data links, fault tracing

The control units share information via two different data links, the SAE J1587/J1708 information link and the SAE J1939 Control link.

Messages on the SAE J1587/J1708 information link include fault codes and warning messages. The SAE J1587/J1708 link also, in some cases, acts as a back-up for SAE J1939. VCADS Pro communicates only on SAE J1587/J1708.

SAE J1939 is a faster link and can therefore send more time critical data. SAE J1939 is used to send data which the system uses for control functions, for example engine rpm.

## **Fault tracing tips:**

- Look at the entire system, check which other fault codes have been set, particularly at what time they were set.
- An active fault in the brake system remains active until the starter key is turned to the stop position. Always ensure that the brake control unit has reset its fault codes.
- If several control units set **active** fault code SID 231 SAE J1939 Control link, the connector for one of the control units which sets fault code SID 231 can be disconnected and the other systems can be checked to ensure they function correctly. This is to investigate whether the fault is in the control unit. The other control units will report that they are not receiving information from the control unit which is disconnected. If the fault remains, disconnect the next control unit which has fault code SID 231. Keep in mind that the engine may not start if some control units are disconnected.
- Measure the resistance of the data link cables <u>Resistance measurement</u>.
- If the fault is intermittent, it is most likely that the fault is in the cable harness or in the connectors. Refer to service information function group 371, information type diagnostics Wiring and connectors, fault tracing.
- For intermittent faults, VCADS Pro test 17004–3 Fault codes, test mode can be started to carry out fault tracing in the system. (It is important that all fault codes are deleted before testing).
- Check data link cables for open circuits Cable measurement.

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