Gasoline Systems

BOSCH

From	Our Reference	Telephone	Telefax	Schwieberdingen
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Report

Topic **Integration document: U/Hex-Codes for tester handling of FCM**

KWP71: U-Codes

Concerned files:

SWSRC: K71ext   1;16

Concept:

P-Codes are transmitted to tester with an offset of 0x4000, 0x4400, 0x4800 and 0x4C00 as before. This is necessary because the tester internal message table is used with different purpose for P-Codes.

0...16.383dec	VAG codes
16.384dec (0x4000)...20.455dec	P-Codes
20.456dec...65.279dec	U-Codes

Table 1: Message table within tester

U-Codes will be transmitted without offset. Application of error codes in BCD format is expected. No conversion will take place.
Direct output of data is possible because the range of U-Codes is currently reserved within the message table of tester.

KWP2000: U-Codes and HEX-Codes

Concerned files:

* .psb: remove KWPSTDA
  #if (SY_KWP2000VAG == 1)
       kstda051.c   kstda051.kgs   /* Error memory handling, VW/AUDI specific for KWP2000 diagnosis tester */
  #else
       kwpstda.c   kwpstda.kgs   /* Error memory handling, basic routines */
  #endif
* SWSRC: KSTDA   051;19 (transmission of U- and Hex-Codes)
* SWPAR: KSTDA   051;4
* SWHDR: KRACT   051;21 (support of reference number 0x0118 for Hex-Code transmission)
* SWSRC: KRACT   051;46 (support of reference number 0x0118 for Hex-Code transmission)
* SWPAR: KRACT   051;8
* SWSRC: TKSTA   3.260#SY_T2DCHEX;0 (or corresponding adapted used version of TKSTA)
* Pk.kgs: SY_T2DCHEX=1 for support of error code in HEX-Coding, 0 for BCD-Coding

Concept:

By sending the reference number 0x0118 as response to request StartRoutineByLocalId-ReadSupportedFunctions the ECU indicates that it is able to transmit error codes in hex format. No offset will be used. By this means gaps within BCD format can be used as error codes additionally.

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This feature requires that the tester has an additional message table for error codes in the range of 0...65535.
Depending on the upper reference number the tester will ask for the error memory with status 02 (BCD) or status 00 (HEX).
Related to the introduction of the new feature the ECU answers with a negative response to the not supported requested status. As the old testers only support status 02 it is no longer possible to read error memory with these testers!