

Mx-DPRS Automated CAN Diagnostic Testing

Danlaw's CAN Diagnostic Connector for Mx-Suite™ is a cost-effective desktop solution for diagnostic testing of Fiat Chrysler Group ECU Modules. Used in conjunction with industry-leading embedded software test environment, it tests CAN diagnostic requirements using a PC workstation, CAN interface, and power supply. Danlaw's CAN Diagnostic Connector reduces the time and operational costs of traditional testing. Suppliers can quickly prepare their components for production release by using a trusted tool that conforms to standard test methods and reporting formats.

Benefits

First time use reduces manual testing efforts from months to days

Subsequent use reduces manual testing efforts from months to a few hours

Test cases and results are formatted to the standard Fiat Chrysler Group Diagnostic Verification Datasheets v2.4

Automated test execution and reporting for Fiat Chrysler Group diagnostic specifications (Fiat 7-z series)

Multiple test methodologies and tools are replaced with a single, simple method and tool

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8.2.1 Timeout Check - Physical				
Step	Session	Test Data	Comments	Test Result
7.2.1.2 - 7.2.1.5	Default Session (\$10 01)		Non-default only per 7.2.1.2	NA
7.2.1.2 - 7.2.1.5	Programming Session (\$10 02)	-;-	Not implemented	NA
7.2.1.2 - 7.2.1.5	Extended Session (\$10 03)	DIAG_ETM_REQ Tx d 2 10 03 DIAG_ETM_RSP Rx d 6 50 03 XX XX XX XX DIAG_ETM_REQ Tx d 3 22 F1 86 DIAG_ETM_RSP Rx d 4 62 F1 86 03 Wait:5.05 DIAG_ETM_REQ Tx d 3 22 F1 86 DIAG_ETM_RSP Rx d 4 62 F1 86 01	(LOG DATA) 10.2000 DIAG_ETM_REQ Tx 10 03 10.2265 DIAG_ETM_RSP Rx 50 03 00 28 00 C8 10.4000 DIAG_ETM_REQ Tx 22 F1 86 10.4365 DIAG_ETM_RSP Rx 62 F1 86 03 15.6500 DIAG_ETM_REQ Tx 22 F1 86 15.6768 DIAG_ETM_RSP Rx 62 F1 86 01	Pass
7.2.1.2 - 7.2.1.5	Other Sessions (\$10 xx)		Not implemented	NA
With diagnosticSession different to the default session, after a timeout, does the ECU return to the default session? (Yes/No)				NA
8.2.1 Timeout Check - Functional				
Step	Session	Test Data	Comments	Test Result
7.2.1.2 - 7.2.1.5	Default Session (\$10 01)		Non-default only per 7.2.1.2	NA
7.2.1.2 - 7.2.1.5	Programming Session (\$10 02)		Not implemented	NA
7.2.1.2 - 7.2.1.5	Extended Session (\$10 03)	DIAG_FUNC_REQ Tx d 2 10 03 DIAG_ETM_RSP Rx d 6 50 03 XX XX XX XX DIAG_FUNC_REQ Tx d 3 22 F1 86 DIAG_ETM_RSP Rx d 4 62 F1 86 03 Wait:5.05 DIAG_FUNC_REQ Tx d 3 22 F1 86 DIAG_ETM_RSP Rx d 4 62 F1 86 01	(LOG DATA) 10.2000 DIAG_FUNC_REQ Tx 10 03 10.2379 DIAG_ETM_RSP Rx 50 03 00 28 00 C8 10.4000 DIAG_FUNC_REQ Tx 22 F1 86 10.4279 DIAG_ETM_RSP Rx 62 F1 86 03 15.6500 DIAG_FUNC_REQ Tx 22 F1 86 15.6795 DIAG_ETM_RSP Rx 62 F1 86 01	Pass
7.2.1.2 - 7.2.1.5	Other Sessions (\$10 xx)		Not implemented	NA
With diagnosticSession different to the default session, after a timeout, does the ECU return to the default session? (Yes/No)				NA

Test report using Fiat Chrysler Group Diagnostic Specification

Value Added Features

- ✓ Seamless integration with industry proven Mx-Suite embedded software test environment
- ✓ Lights out, automated option
- ✓ Easy to understand configuration and execution of tests
- ✓ Can be used for any ECU module that requires CAN diagnostic testing
- ✓ Eliminates the need for script writing and parsing of CAN diagnostic messages

CAN Diagnostic Connector 3.36 Specifications

Installation Platform Requirements	Microsoft™ Windows XP, SP3 Windows Vista, SP2 Windows 7
Mx-Suite™ Embedded Software Test Environment Dependency	Mx-Serve™ 1.0.6 License Server or newer Mx-Suite™ 3.36 Release or newer
Fiat Chrysler Group Standard Compliance	Performance Standard 7-Z0059 (excl. 8.4, 8.6.1 - 8.6.7) Performance Standard 7-Z0059/01 (excl. 8.1) Performance Standard 7-Z0145 (excl. 7.9.4.2)