

ISO 16844-6:2015-01 (E)

Road vehicles - Tachograph systems - Part 6: Diagnostics

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative reference	1
3	Terms and definitions	1
4	Abbreviated terms	2
5	Overview and conventions	2
5.1	Service description conventions	2
5.2	Addresses	2
5.2.1	General	2
5.2.2	Functional addresses	2
5.2.3	Physical addresses	2
5.3	Parameters	2
6	Diagnostic services implementation	2
6.1	General and overview	2
6.2	Diagnostic and communication management functional unit	4
6.2.1	DiagnosticSessionControl service	4
6.2.2	ECUReset service	4
6.2.3	SecurityAccess service	5
6.2.4	CommunicationControl service	5
6.2.5	SecuredDataTransmission service	5
6.2.6	ResponseOnEvent service	5
6.2.7	LinkControl service	6
6.3	Data transmission functional unit	7
6.3.1	ReadDataByIdentifier service	7
6.3.2	ReadDataByPeriodicIdentifier service	7
6.3.3	DynamicallyDefineDataIdentifier service	7
6.3.4	WriteDataByIdentifier service	7
6.4	Stored data transmission functional unit	8
6.4.1	ClearDiagnosticInformation service	8
6.4.2	ReadDTCInformation service	8
6.5	Input/Output control functional unit	9
6.5.1	InputOutputControlByIdentifier service	9
6.6	Remote activation of routine functional unit	9
6.6.1	RoutineControl service	9
7	Application layer requirements	10
7.1	General	10
7.2	Application layer protocol	10
7.2.1	General	10
7.2.2	Application layer timing	10
8	Presentation layer requirements	10
9	Session layer requirements	10

10	CAN protocol layers	11
10.1	General	11
10.2	Transport layer	11
10.3	Network layer (CAN only)	11
10.3.1	General	11
10.3.2	Communication parameters	11
10.4	CAN data link layer	11
10.4.1	General	11
10.4.2	Protocol	11
10.4.3	Address coding method	11
10.5	CAN physical layer	11
11	K-Line protocol layers	11
11.1	General	11
11.2	K-line data link layer	12
11.2.1	General	12
11.2.2	Protocol specific key bytes	12
11.2.3	Initialisation	12
11.2.4	Timing	12
11.3	K-line physical layer	12
11.3.1	General	12
11.3.2	Configuration	12
	Bibliography	13