

TEBS Diagnostic Cables for TEBS

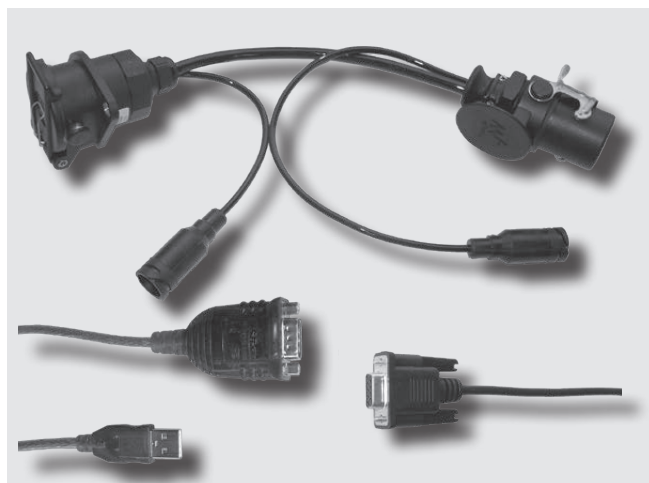
Function

Diagnostic Cables are used in trailer EBS systems to:

- provide electrical power to the diagnostic equipment where necessary
- supply status information to the diagnostic equipment

Newer EBS-equipped trailers can be diagnosed through the ISO 7638 connection. Older EBS-equipped trailers will have a diagnostic socket installed. Details of the cables/harnesses with diagnostic socket are shown in PD-272-025, Document No. Y142784 for TEBS G2 systems and PD-272-050, Document No. Y464351 for iTEBS systems.

Included in this document are details of various diagnostic cables the Universal Diagnostic Interface (UDIF), or Jaltest Link which is required to diagnose TEBS systems using the Knorr-Bremse ECUTalk® or iTALK® diagnostic software.



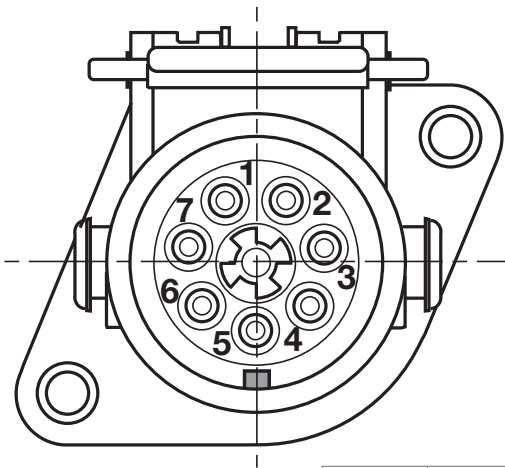
Technical Features

Operating Temperature Range: -40 °C to +80 °C

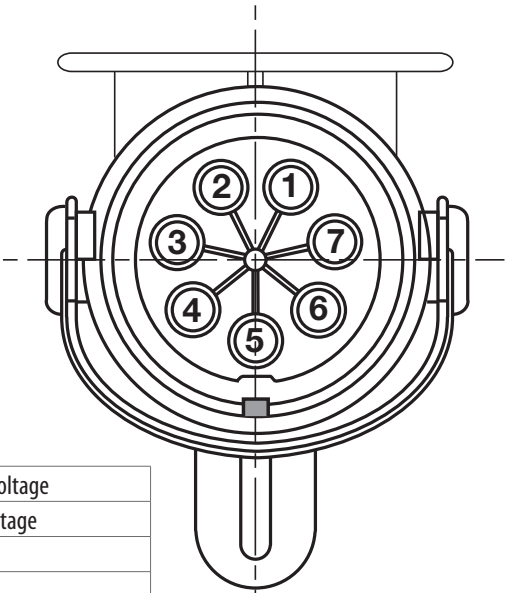
See tables for other features.

Pin Configurations

ISO 7638 Socket
(24 V)



ISO 7638 Plug
(24 V)



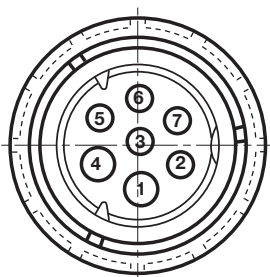
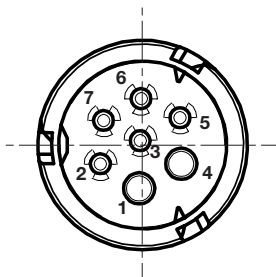
Pin 1	red	Valve supply voltage
Pin 2	black	ECU supply voltage
Pin 3	yellow	ECU ground
Pin 4	brown	Valve ground
Pin 5	white	Warning lamp
Pin 6	white/green	CAN-Hi
Pin 7	white/brown	CAN-LO

Diagnostic Connector

Bayonet Connector

ISO 7638 Socket

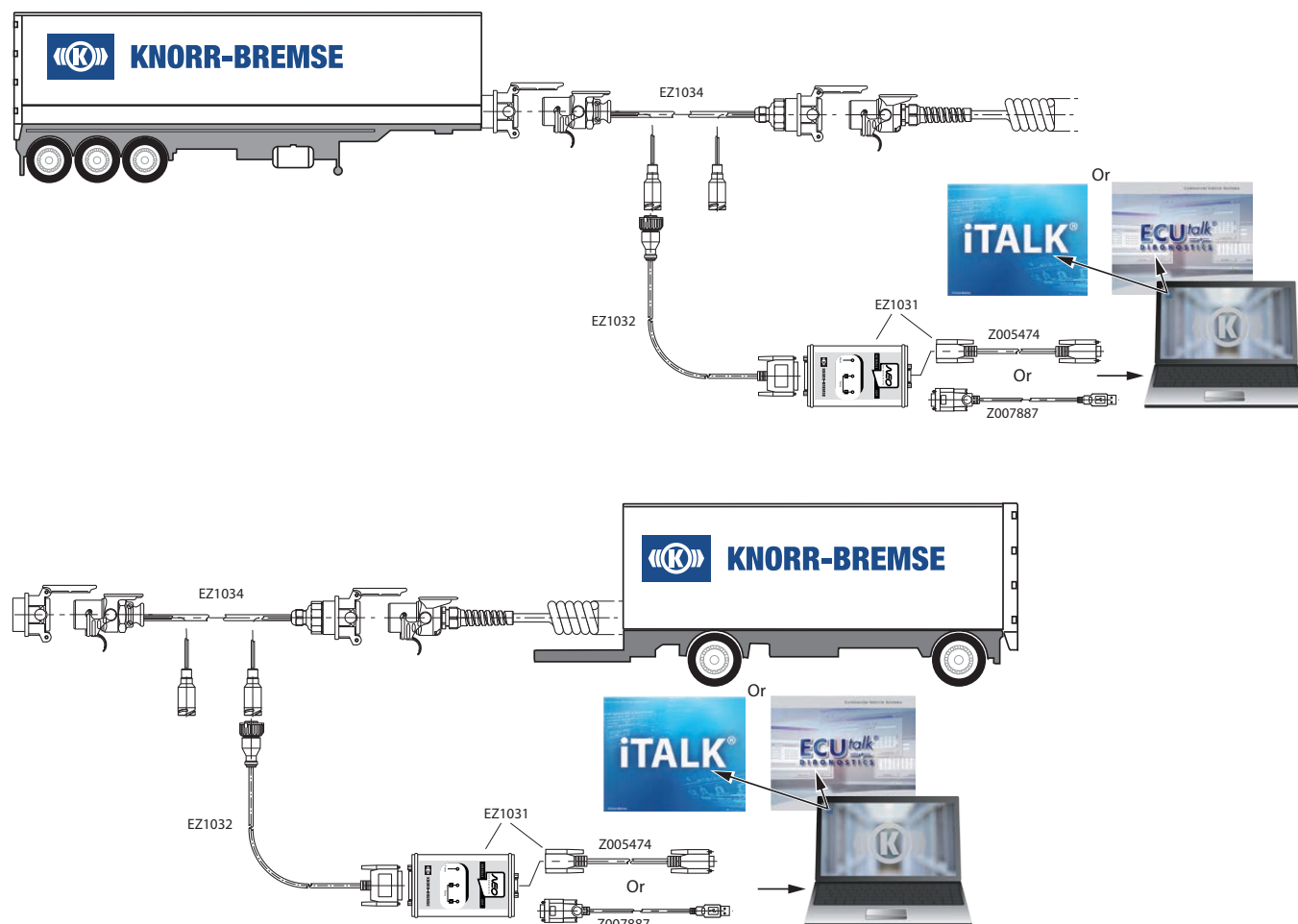
ISO 7638 Plug



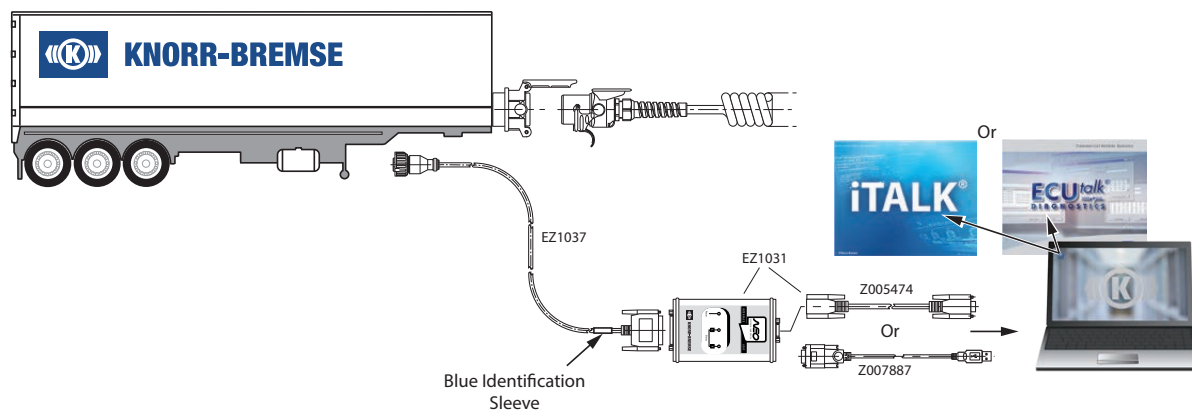
Pin 1	not connected
Pin 2	24 V
Pin 3	DIA-K
Pin 4	not connected
Pin 5	GND
Pin 6	CAN-L
Pin 7	CAN-H

Diagnostic set up

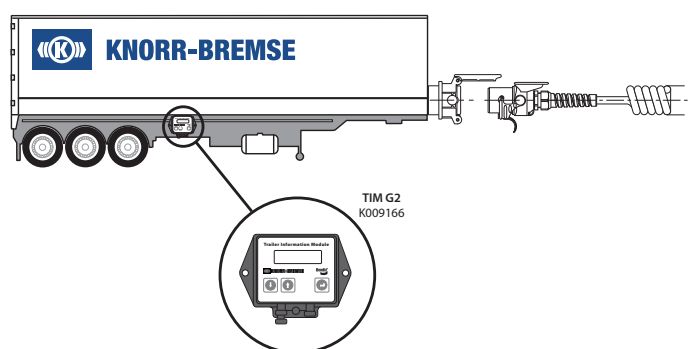
PC Diagnostics via 24 V CAN



PC Diagnostics via Diagnostic Socket (Bayonet 5 V CAN)

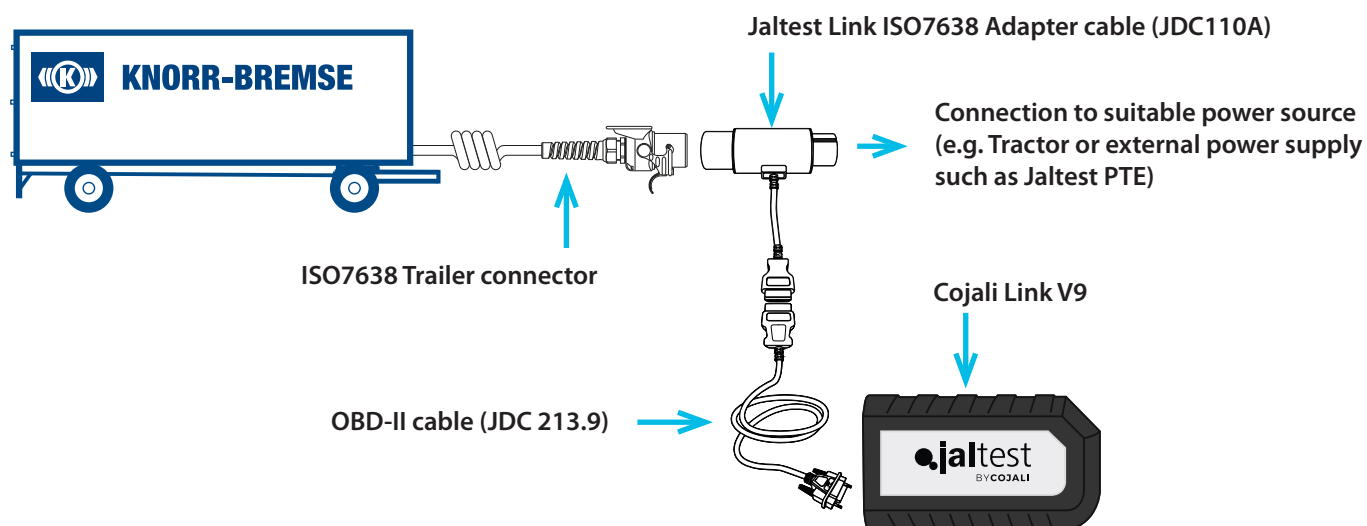


TIM G2 Diagnostics via Diagnostic Socket (Bayonet - 5 V CAN)



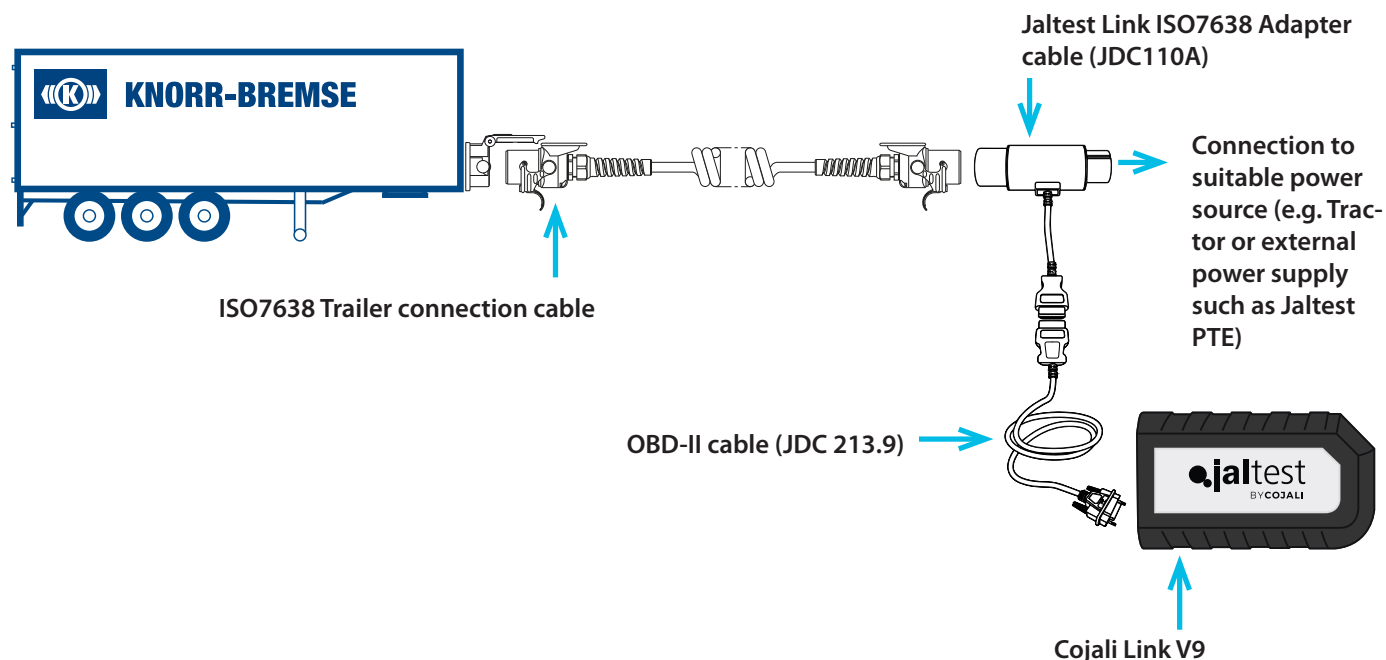
Diagnostic Cables for TEBS

PC Diagnostic via Jaltest Link



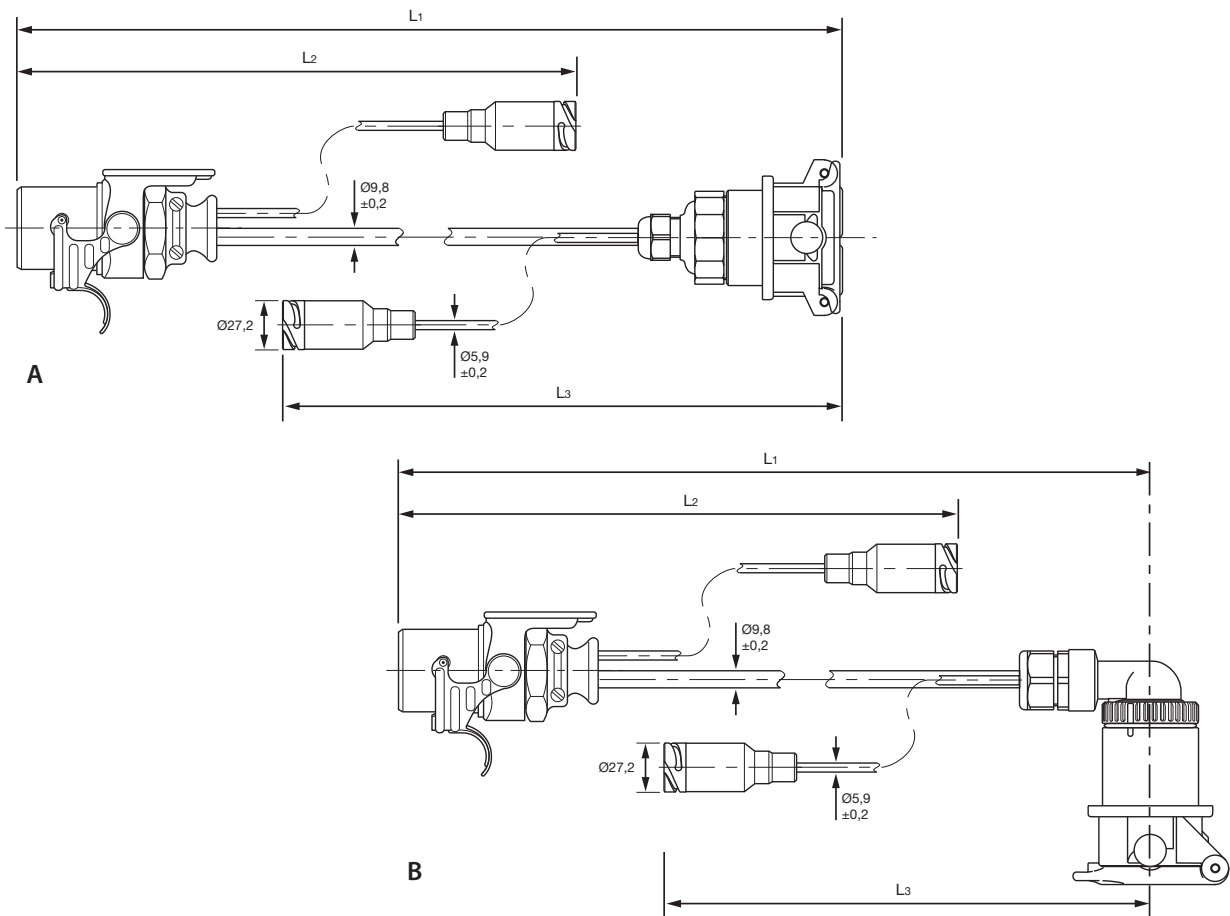
Jaltest Link must be connected to the PC through the USB port.

Jaltest Link is connected to the vehicles using OBD-II cable and adapter cables specific to the vehicle diagnostic socket



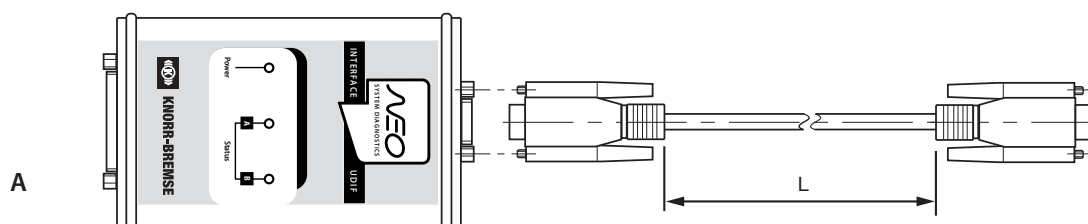
Range Overview - Diagnostic Cables

ISO 7638 Plug/Socket 12/24 V CAN Adaptor Cable



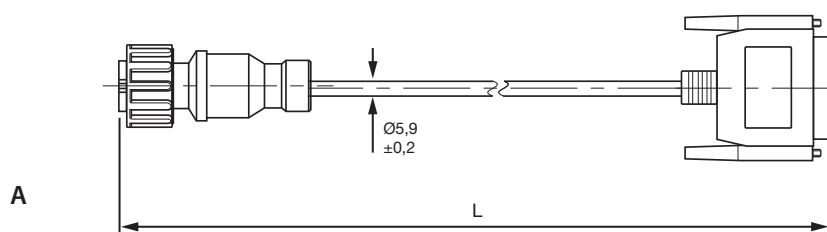
Part No.	Type No.	Cable length [m]	Drawing	Comments
II39808F	EZ1034	L1 = 0.45 L2 = 0.60 L3 = 0.35	A	Suits all types of trailer with 24 V system
K028584		L1 = 0.60 L2 = 0.45 L3 = 0.35	B	Suits all types of trailer with 12 V system

Universal Diagnostic Interface (UDIF) and Cable



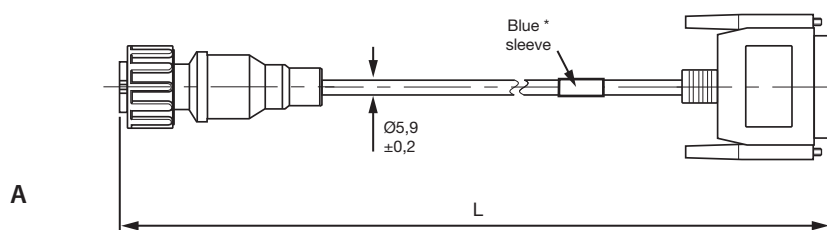
Part No.	Type No.	Cable length [m]	Drawing	Comments
II39809F	EZ1031	1.5	A	Includes UDIF K018631 and Cable Z005474 with RS232 Sub-D 9-pin Connectors

24 V CAN (Bayonet) to UDIF Cable



Part No.	Type No.	Cable length [m]	Drawing	Comments
II39812F	EZ1032	3.0	A	For use with Adaptor Cable II39808F-EZ1034 UDIF Connector is Sub-D 25-pin

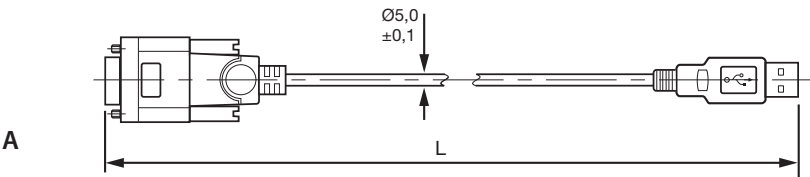
Diagnostic Plug (Bayonet - 5 V CAN) to UDIF Cable



Part No.	Type No.	Cable length [m]	Drawing	Comments
K010837 ¹⁾	EZ1037	3.0	A	* Blue identification sleeve on cable UDIF Connector is Sub-D 25-pin

1) The part number will carry a suffix "N00" which defines that it is supplied without packaging. Example K010837N00

RS232 Sub-D 9-pin Connector to PC USB Adaptor Cable



Part No.	Type No.	Cable length [m]	Drawing	Comments
Z007887	–	1.8	A	For use with UDIF and Cable II39809F-EZ1031

Jaltest Link

The robust hard case contains everything required for communication with the Electronic Control Unit (ECU) via the Jaltest Link and a number of vehicle-specific adapters.



JALTEST CV Kit Hardware
Compact Hard case



JALTEST Link V9

Revision Details		
Rev. 002	January 2019	New Layout
Rev. 003	June 2023	New iTEBS information



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