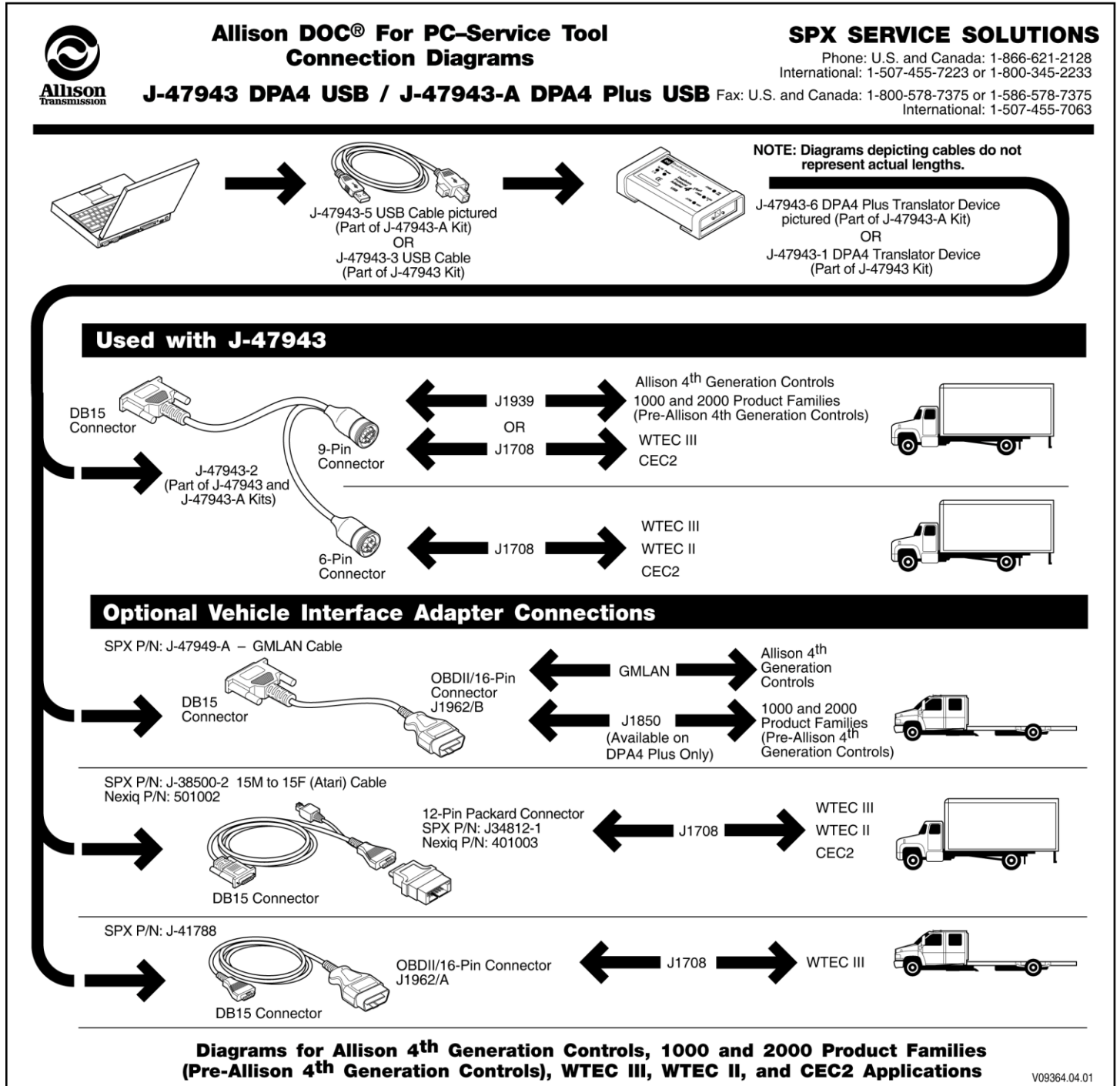


2. Connecting the PC to the Control System

The diagram below illustrates the hardware connections between the PC hosting Allison DOC® For PC-Service Tool, the data translator, and the vehicle control system diagnostic connector.





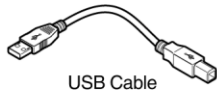
Nexiq USB-Link™ Kit

J1850 Communication Protocol

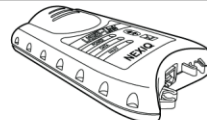
SPX SERVICE SOLUTIONS

Phone: U.S. and Canada: 1-866-621-2128
International: 1-507-455-7223 or 1-800-345-2233

Fax: U.S. and Canada: 1-800-578-7375 or 1-586-578-7375
International: 1-507-455-7063



USB Cable
(Use the USB Cable included
with the Nexiq USB-Link™ Kit)

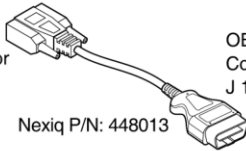


Nexiq USB-Link™
Nexiq Kit P/N: 125032
SPX Kit P/N: J-48624

NOTE: Diagrams depicting
cables do not
represent actual
lengths.

Nexiq USB-Link™

DB15
Connector



Nexiq P/N: 448013

OBDII/16-Pin
Connector
J 1962/A



J1850



1000 and 2000
Product Families
(Pre-Allison 4th
Generation Controls)



Diagrams for Applications Using 1000 and 2000 Product Families (Pre-Allison 4th Generation Controls)

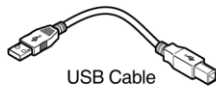
V09365.01.04



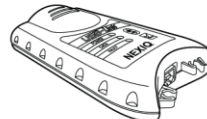
Nexiq USB-Link™ Kit

Allison Transmission CEC1 Communication Protocol

For Purchase Contact:
SPX Service Solutions



USB Cable
(Use the USB Cable included
with the Nexiq USB-Link™ Kit)



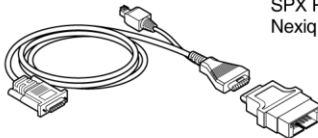
Nexiq USB-Link™
Nexiq Kit P/N: 125032
SPX Kit P/N: J-48624

NOTE: Diagrams depicting
cables do not
represent actual
lengths.

NOTE: The RoHS version of
the Nexiq USB-Link™
is required for
CEC1 applications.

Nexiq USB-Link™

15M to 15F (Atari) Cable
SPX P/N: 38500-2
Nexiq P/N: 501002



12-Pin Packard Connector
SPX P/N: J-34812-1
Nexiq P/N: 401003



Allison
Transmission
Proprietary
Protocol



CEC1



Diagrams for CEC1 Applications

V09366.01.05

A fully RP1210A compliant PC-to-vehicle translator device is required to establish communication with the TCM/ECU. Allison DOC ® For PC-Service Tool currently supports the Dearborn Protocol Adaptor DPA4 Plus USB (SPX P/N J47943-A) and other devices listed in the latest Allison DOC ® Service Information Letter (SIL), available on the Allison Transmission Extranet.



NOTE: For more information on installation and troubleshooting procedures when using the Dearborn DPA4 Plus USB adapter, please refer to the “***DPA4 Plus USB Translator Device (SPX P/N: J-47943-A) Quick Reference Guide***” document available at www.allisontransmission.com | Service | Electronic tools | Translator Devices.

In order to communicate with the CEC control system, Allison DOC ® For PC–Service Tool requires the Allison Transmission CEC Translator Device, a Noregon JPRO® DLA+ Wireless adapter or a Nexiq USBLink with CEC support. Refer to the above diagrams for P/Ns and contact information. The drivers must be installed from the Allison DOC ® For PC–Service Tool CD-ROM, located in the Noregon RP1210A API folder or from the Nexiq website.

To communicate with 1000/2000/2400 Series™ transmissions using the J1850 communication protocol (with OBDII trapezoidal diagnostic connector), Allison DOC ® For PC–Service Tool requires the SPX J1850 VPW translator device, Dearborn Protocol Adaptor DPA4 Plus USB, Noregon JPRO® DLA+ Wireless adapter or a Nexiq USBLink with 1850 support. Refer to the above diagrams for P/Ns and contact information.