Eaton® ServiceRanger 4 Connection Settings Quick Reference

Did ServiceRanger connect to your vehicle but no Eaton product was detected?
Before calling the Roadranger Call Center ensure you are using the correct connection setting.

1. Use an approved communication adapter.

Approved Communication Adapters	
• NEXIQ USB-Link • DG Technologies DPA 4 Plus • Noregon JPRO DLA+ • Cummins INLINE 6	- Supports CAN Channel 1, 2, and J1587 - Crossover Cable required for CAN Channel 3*
• NEXIQ USB-Link **2** and **3** • DG Technologies DPA 5 • Noregon JPRO DLA+ 2.0 • Cummins INLINE 7	- Supports CAN Channel 1, 2, 3 and J1587 - Crossover Cable **NOT** required for CAN Channel 3**

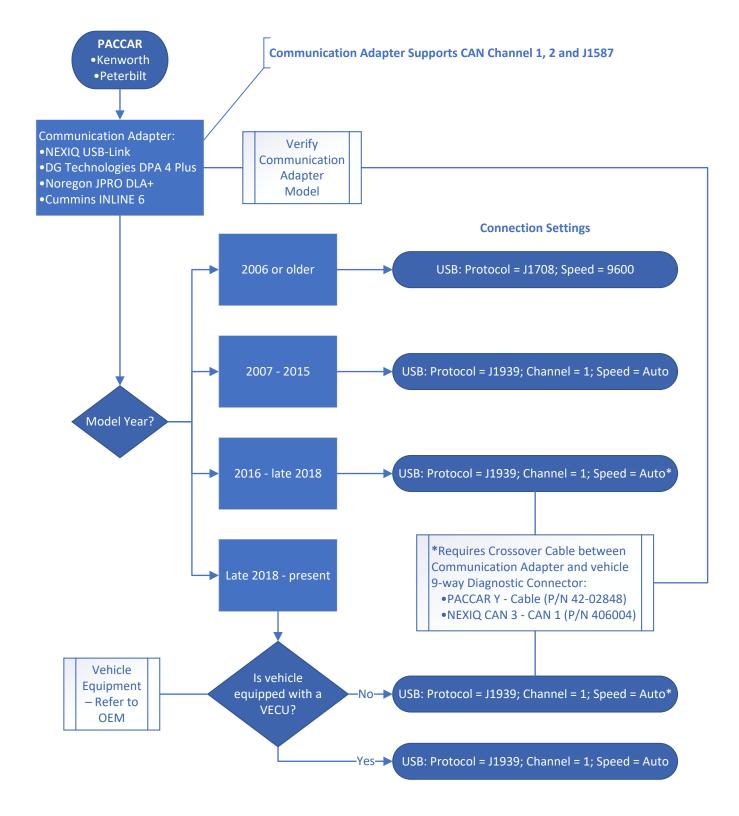| Crossover Cable |
| --- |
| • PACCAR Y - Cable (P/N 42-02848)
• NEXIQ CAN 3 - CAN 1 (P/N 406004) |

NOTICE: An approved communication adapter and USB connection is required to program a TECU or TCM. Do **NOT** use a wireless connection - Bluetooth or WiFi. Failure to use an approved communication adapter and USB connection may result in a damaged TECU or TCM and void component warranty.

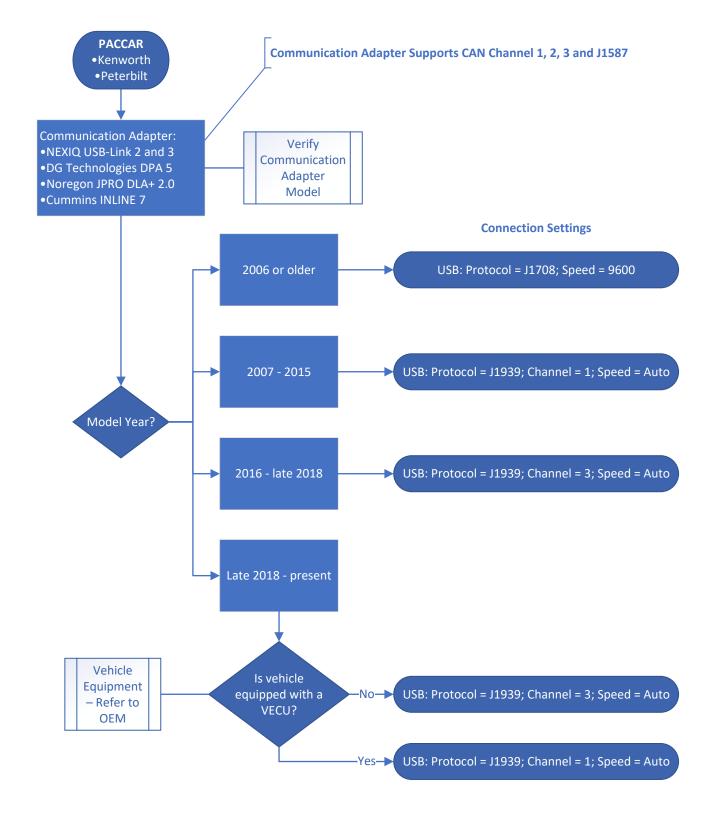**2.** Add or edit a Profile in ServiceRanger 4 Connection Settings screen.

OEM	Model Year	Crossover Cable	CAN Channel	Connection	Recommended Setting
PACCAR Kenworth Peterbilt	2006 or older †		1	J1587	**USB**: Protocol = J1708; Speed = 9600
	2007 - 2015		1	J1939	**USB**: Protocol = J1939; Channel = 1; Speed = Auto
	2016 - late 2018	*Yes	3	J1939	**USB**: Protocol = J1939; Channel = 1; Speed = Auto
		**No	3	J1939	**USB**: Protocol = J1939; Channel = 3; Speed = Auto
	late 2018 - present	*Yes	w/ CECU ‡ = 3	J1939	**USB**: Protocol = J1939; Channel = 1; Speed = Auto
		**No	w/ CECU ‡ = 3	J1939	**USB**: Protocol = J1939; Channel = 3; Speed = Auto
			w/ VECU ‡ = 1	J1939	**USB**: Protocol = J1939; Channel = 1; Speed = Auto
Navistar International	2006 or older †		1	J1587	**USB**: Protocol = J1708; Speed = 9600
	2007 - present		1	J1939	**USB**: Protocol = J1939; Channel = 1; Speed = Auto
DTNA Freightliner Western Star	2006 or older †		1	J1587	**USB**: Protocol = J1708; Speed = 9600
	2007 - present		1	J1939	**USB**: Protocol = J1939; Channel = 1; Speed = Auto
Volvo Mack	2006 or older †		1	J1587	**USB**: Protocol = J1708; Speed = 9600
	2007 - 2015		1	J1939	**USB**: Protocol = J1939; Channel = 1; Speed = Auto
	2016 - present	*Yes	3	J1939	**USB**: Protocol = J1939; Channel = 1; Speed = Auto
		**No	3	J1939	**USB**: Protocol = J1939; Channel = 3; Speed = Auto
Bluebird	2007 - present		2	J1939	**USB**: Protocol = J1939; Channel = 2; Speed = Auto

† Gen2 Transmissions only

‡ Vehicle equipment, refer to OEM.

Note: AutoShift Gen1 Transmissions require ServiceRanger 2.80, click **here** for more information.

PACCAR
- Kenworth
- Peterbilt

Communication Adapter:
- NEXIQ USB-Link
- DG Technologies DPA 4 Plus
- Noregon JPRO DLA+
- Cummins INLINE 6

Communication Adapter Supports CAN Channel 1, 2 and J1587

SERVICERANGER 4

Verify Communication Adapter Model

Connection Settings

Model Year?

2006 or older → USB: Protocol = J1708; Speed = 9600

2007 - 2015 → USB: Protocol = J1939; Channel = 1; Speed = Auto

2016 - late 2018 → USB: Protocol = J1939; Channel = 1; Speed = Auto*

*Requires Crossover Cable between Communication Adapter and vehicle 9-way Diagnostic Connector:
- PACCAR Y - Cable (P/N 42-02848)
- NEXIQ CAN 3 - CAN 1 (P/N 406004)

Late 2018 - present

Vehicle Equipment – Refer to OEM

Is vehicle equipped with a VECU?

No → USB: Protocol = J1939; Channel = 1; Speed = Auto*

Yes → USB: Protocol = J1939; Channel = 1; Speed = Auto

PACCAR
- Kenworth
- Peterbilt

Communication Adapter Supports CAN Channel 1, 2, 3 and J1587

SERVICE**RANGER** 4

Communication Adapter:
- NEXIQ USB-Link 2 and 3
- DG Technologies DPA 5
- Noregon JPRO DLA+ 2.0
- Cummins INLINE 7

Verify Communication Adapter Model

Connection Settings

Model Year?

2006 or older → USB: Protocol = J1708; Speed = 9600

2007 - 2015 → USB: Protocol = J1939; Channel = 1; Speed = Auto

2016 - late 2018 → USB: Protocol = J1939; Channel = 3; Speed = Auto

Late 2018 - present

Vehicle Equipment – Refer to OEM

Is vehicle equipped with a VECU? —No→ USB: Protocol = J1939; Channel = 3; Speed = Auto

—Yes→ USB: Protocol = J1939; Channel = 1; Speed = Auto

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Navistar
•International

Communication Adapter:
•NEXIQ USB-Link
•DG Technologies DPA 4 Plus
•Noregon JPRO DLA+
•Cummins INLINE 6
•NEXIQ USB-Link 2 and 3
•DG Technologies DPA 5
•Noregon JPRO DLA+ 2.0
•Cummins INLINE 7

Connection Settings

Model Year?

2006 or older → USB: Protocol = J1708; Speed = 9600

2007 - present → USB: Protocol = J1939; Channel = 1; Speed = Auto

DTNA
- Freightliner
- Western Star

Communication Adapter:
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Connection Settings

Model Year?

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2007 - present → USB: Protocol = J1939; Channel = 1; Speed = Auto

Volvo
Mack

Communication Adapter
•NEXIQ USB-Link
•DG Technologies DPA 4 Plus
•Noregon JPRO DLA+
•Cummins INLINE 6

Verify
Communication
Adapter
Model

Connection Settings

Model Year?

2006 or older

USB: Protocol = J1708; Speed = 9600

2007 - 2015

USB: Protocol = J1939; Channel = 1; Speed = Auto

2016 - present

USB: Protocol = J1939; Channel = 1; Speed = Auto*

*Requires Crossover Cable between
Communication Adapter and vehicle
9-way Diagnostic Connector:
   •NEXIQ CAN 3 - CAN 1 (P/N 406004)

Communication Adapter Supports CAN Channel 1, 2, 3 and J1587

Volvo
Mack

Communication Adapter
•NEXIQ USB-Link 2 and 3
•DG Technologies DPA 5
•Noregon JPRO DLA+ 2.0
•Cummins INLINE 7

Verify
Communication
Adapter
Model

Connection Settings

Model Year?

2006 or older → USB: Protocol = J1708; Speed = 9600

2007 - 2015 → USB: Protocol = J1939; Channel = 1; Speed = Auto

2016 - present → USB: Protocol = J1939; Channel = 3; Speed = Auto

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Bluebird

Communication Adapter:
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•DG Technologies DPA 4 Plus
•Noregon JPRO DLA+
•Cummins INLINE 6
•NEXIQ USB-Link 2 and 3
•DG Technologies DPA 5
•Noregon JPRO DLA+ 2.0
•Cummins INLINE 7

Connection Settings

Model Year? → 2007 - present → USB: Protocol = J1939; Channel = 2; Speed = Auto