POWER**O**FLEET®
People Powered AIoT

Universal Cables

Installation Guide

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1 Key Benefits

> ⚠️ **Warning**
>
> The Universal Cables are designed for ECM enabled products and are only compatible with the MGS700 and MGS800 Series products

- **Simplifies Product Offering**

  The two new Universal Cables replace the need for multiple cable types as previously sold

- **Simplifies Troubleshooting**

  Customers can change the connection type themselves with Tech Support assistance, eliminating the need to replace cables or send an installer to the customer

- **Simplifies Sales**

  The Sales Team can identify and select cables quicker than before, speeding up the sales process

2 The Universal Cables

Use the images below to identify the two cable types.

OBII Universal Cable

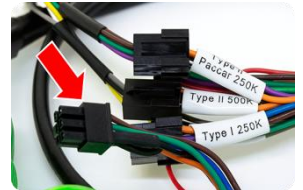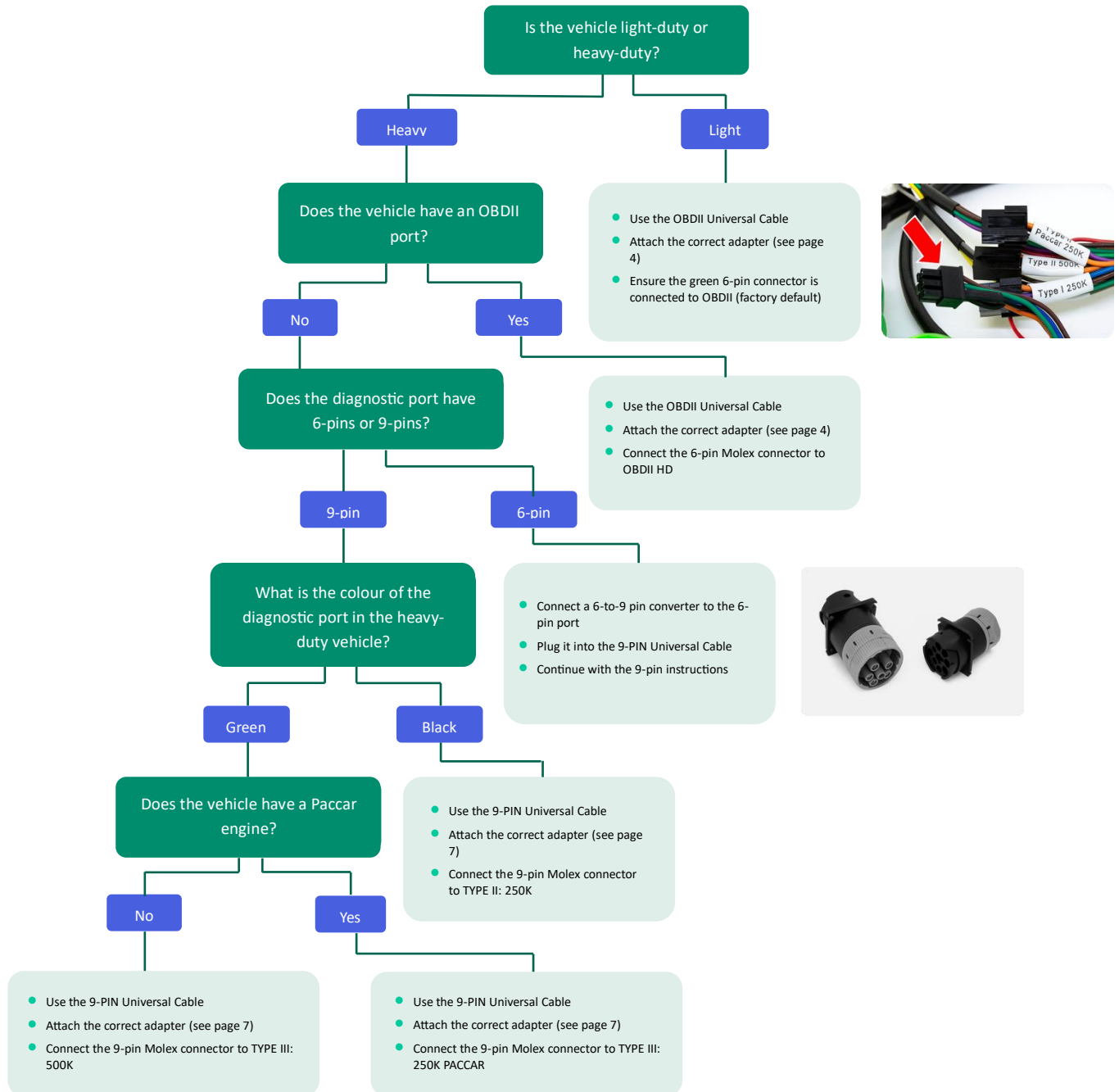For vehicles with OBII ports (Light and Heavy Duty).

9-Pin Universal Cable

For vehicles with a 9-Pin Connector (Heavy Duty).

3   Choose the correct cable

Use the flowchart below to identify which cable and connectors to select.

Is the vehicle light-duty or heavy-duty?

- **Heavy**
- **Light**

Does the vehicle have an OBDII port?

- Use the OBDII Universal Cable
- Attach the correct adapter (see page 4)
- Ensure the green 6-pin connector is connected to OBDII (factory default)

- **No**
- **Yes**

Does the diagnostic port have 6-pins or 9-pins?

- Use the OBDII Universal Cable
- Attach the correct adapter (see page 4)
- Connect the 6-pin Molex connector to OBDII HD

- **9-pin**
- **6-pin**

What is the colour of the diagnostic port in the heavy-duty vehicle?

- Connect a 6-to-9 pin converter to the 6-pin port
- Plug it into the 9-PIN Universal Cable
- Continue with the 9-pin instructions

- **Green**
- **Black**

Does the vehicle have a Paccar engine?

- Use the 9-PIN Universal Cable
- Attach the correct adapter (see page 7)
- Connect the 9-pin Molex connector to TYPE II: 250K

- **No**
- **Yes**

- Use the 9-PIN Universal Cable
- Attach the correct adapter (see page 7)
- Connect the 9-pin Molex connector to TYPE III: 500K

- Use the 9-PIN Universal Cable
- Attach the correct adapter (see page 7)
- Connect the 9-pin Molex connector to TYPE III: 250K PACCAR

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Choose and Attach the Correct Adapter

OBDII Universal Cable

Adapters Table				
Item No.	For	Picture	With Core Connector Assembled	Equivalent to
1	Volvo			
2	Chrystler, Hyundai			
3	BMW			
4	Mercedes, BMW			
5-1 & 5-2	Fiat, Citroën, Peugeot			
6	Volkswagen, Audi			
7	Honda			

4 Choose and Attach the Correct Adapter

OBDII Universal Cable

		Adapters Table		
Item No.	For	Picture	With Core Connector Assembled	Equivalent to
8	Ford			
9	BMW			
10	Ford, GM			
11	Ford, GM, Chrysler			
12	Toyota, Hyundai, Kia, Ford, Land Rover			
13	Ford			
14	Iveco			

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| 15-1 & 15-2 | Citroën | | | |

Adapters Table

Step 1	Remove the vehicle's original OBDII female connector (part C) from its slot (part A). The vehicle's OBD port is usually located under the dashboard at the driver's side.	
Step 2	Fasten the universal connector (part E) with the matched mounting bracket to the vehicle's OBDII slot and secure in place using either screws or the plastic clips on the mounting brackets.	
Step 3	Continue with regular cable installation.	
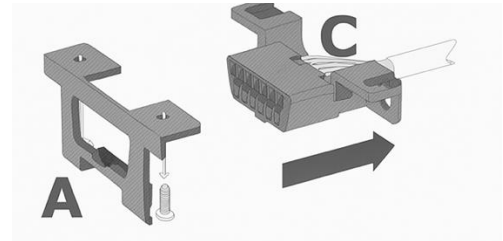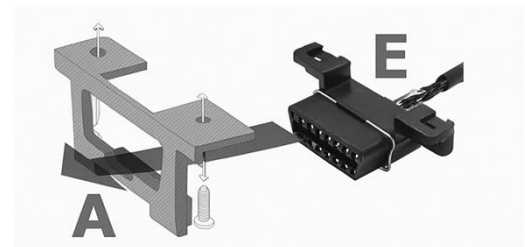
Adapters Table

Item No.8 (Ford)

Step 1	Slide the Ford round bracket all the way to the back of the core connector.	
Step 2	Using the insert/removal tool, secure the bracket in place using the provided metal clips and ensure that they latch in.	

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Step 1	Slide the European Latch & Snap all the way to the back of the core connector.	
Step 2	Slide the small snap adapter (Item 5-2 & 15-2) from the back of the connector. Ensure that the European Latch & Snap is securely interlocked.	

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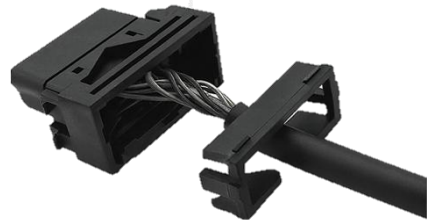
5   9-Pin Universal Cable

Choose from the three adapters shown by trying the adapters in the vehicle. Change the adapter using the instructions below.

Adapters Instructions

Step 1	Remove the screw cap at the back of the core connector and slide the cap slightly away.	
Step 2	Grip the wires at the back of the cartridge and remove the core connector and adapter together. Ensure that you do not damage or move the terminals inside. This will make re-insertion into the core connector easier.	
Step 3	Slide the existing adapter off the core connector.	
Step 4	Insert the desired adapter onto the core connector once again. Ensure that the adapter is correctly oriented to slide into the notch on the core connector.	
Step 5	Move the core connector back onto the terminal cartridge carefully, lining up the two installation slots on the side of the terminal cartridge with the notches inside the core connector.	
Step 6	Screw the cap back on at the back of the connector. Ensure that the connection is tight and that there is no gap between the adapter and the screw cap. Save the remaining adapters.	
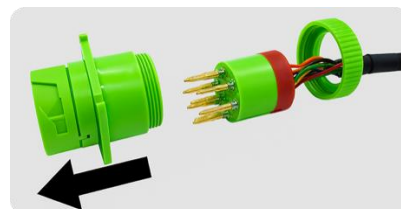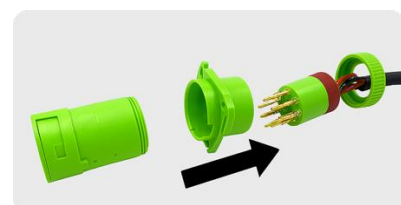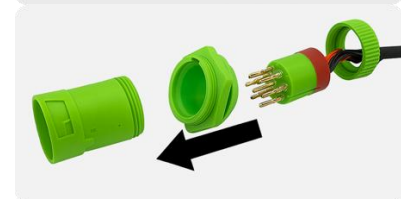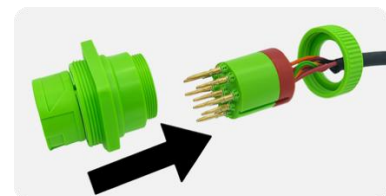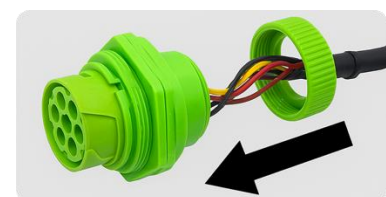
6 Installation example: How to use the installation guide

This example follows the steps in which a Sales Representative will select the cable type to install in a vehicle.

Sample Vehicle:

VIN: 1XKYDP9X2JJ217758.

Year: 2018

Make: Kenworth

Model: T680   **Engine:**

Paccar engine

Follow the instructions outlined in the final step of the flowchart to determine the type of cable and connections needed for the specific vehicle.

Is the vehicle light-duty or heavy-duty?

Heavy

Light

Does the vehicle have an OBDII port?

- Use the OBDII Universal Cable
- Attach the correct adapter (see page 4)
- Ensure the green 6-pin connector is connected to OBDII (factory default)

No

Yes

Does the diagnostic port have 6-pins or 9-pins?

- Use the OBDII Universal Cable
- Attach the correct adapter (see page 4)
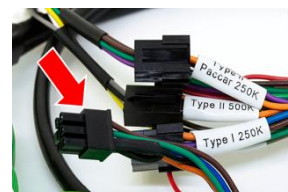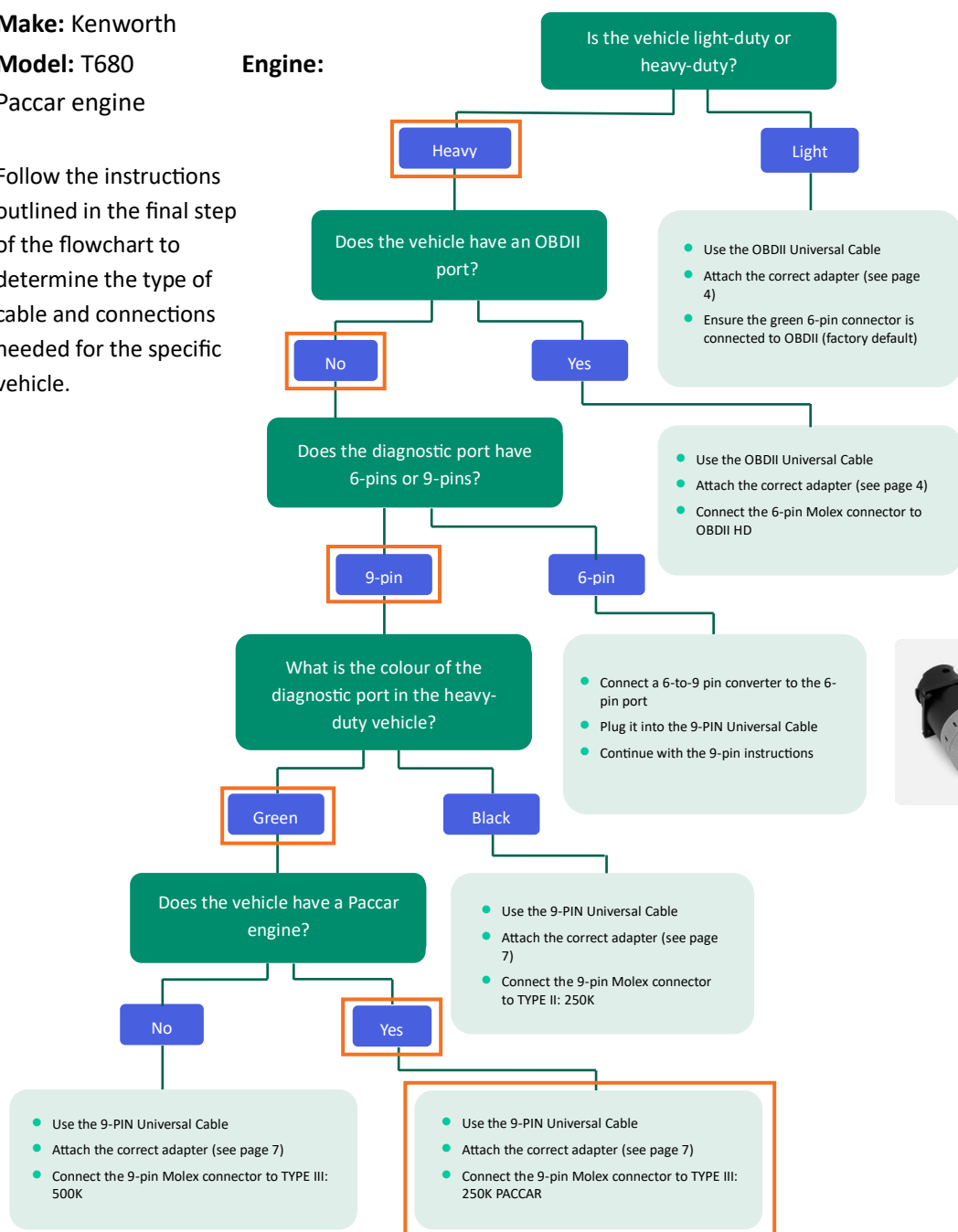- Connect the 6-pin Molex connector to OBDII HD

9-pin

6-pin

What is the colour of the diagnostic port in the heavy-duty vehicle?

- Connect a 6-to-9 pin converter to the 6-pin port
- Plug it into the 9-PIN Universal Cable
- Continue with the 9-pin instructions

Green

Black

Does the vehicle have a Paccar engine?

- Use the 9-PIN Universal Cable
- Attach the correct adapter (see page 7)
- Connect the 9-pin Molex connector to TYPE II: 250K

No

Yes

- Use the 9-PIN Universal Cable
- Attach the correct adapter (see page 7)
- Connect the 9-pin Molex connector to TYPE III: 500K

- Use the 9-PIN Universal Cable
- Attach the correct adapter (see page 7)
- Connect the 9-pin Molex connector to TYPE III: 250K PACCAR
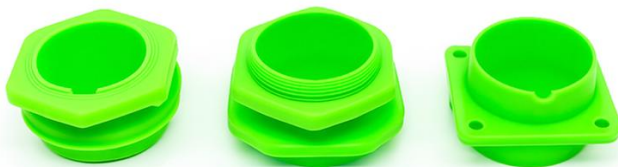
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7 Use the instructions from the final step of the flowchart:

1. Use the 9-PIN Universal Cable
2. Attach the correct adapter (see page 7)
3. Connect the 9-pin Molex connector to TYPE III: 250K PACCAR

1.Use the 9-PIN UNIVERSAL CABLE for this installation

- Refer to "THE UNIVERSAL CABLES" section to choose the correct cable

2.Attah the correct adapter

- Refer to the " CHOOSE AND ATTACH THE CORRECT ADAPTER" section

3.Connect the 6-pin Molex Connector to TYPE III: 250K PACCAR

- Ensure the 6-Pin Molex Connector snaps in place in the correct orientation