

**Matrix Headlights 8JU/8IU**

Concern: **Upgrading from LED headlights 8IS/8IT to Matrix headlights 8JU**

Model Year: **As of 2017**

Restriction: Only for vehicles with basic LED headlights **8IS/8IT** incl. Porsche Dynamic Light System **and** Navigation unit High **7UG** **and either** Lane Keep Assist **6I1**, **or** Traffic sign recognition **9Q6**, **or** Porsche InnoDrive **3V1**.  
**(8IS/8IT + 7UG + 6I1/9Q6/3V1)**



Figure 1

Parts Info:

**971.044.914**

Matrix headlights set, PDLS + SAE EXC, left and right **USA**

**971.044.916**

Matrix headlights set, PDLS + SAE Standard, left and right **USA**

**Replacing headlights**

- 1 Replace headlights at the left and right.
  - 1.1 Remove and install headlight. ⇒ *Workshop Manual 'Removing and installing headlights'*
  - 1.2 Remove and install light bulb control unit. ⇒ *Workshop Manual 'Removing and installing light bulb control unit'*
  - 1.3 Convert LED module fan. Remove and install LED module fan. ⇒ *Workshop Manual 'Removing and installing LED module fan'*

- 1.4 Remove and install control unit for light adjustment. ⇒ *Workshop Manual 'Removing and installing control unit for light adjustment'*

## Subsequent work

### Coding and adjusting headlights

#### NOTICE

##### Voltage drop

- Risk of irreparable damage to control unit
  - Risk of damage to control unit
  - Fault entries in the control unit
  - Coding in the control unit is aborted
  - Malfunctions in control unit, even during programming
- ⇒ Prior to disconnecting the control unit, switch off the ignition and remove the ignition key.
- ⇒ Ensure that the power supply is not interrupted during programming.
- ⇒ Connect battery charger/power supply suitable for AGM Type batteries, recommended current rating of 90A fixed voltage 13.5V to 14.5V, tool number VAS 5908.



#### Information

The **9900 - PIWIS Tester III** instructions take precedence since the description may be different with later Tester releases.

The procedure described here has been structured in general terms; different text or additions may appear on the **9900 - PIWIS Tester III**.

## 2 Code headlights.

- 2.1 **9900 - PIWIS Tester 3** must be connected before switching on the ignition.
- 2.2 Select vehicle type. PIWIS Tester II Diagnostics starts.
- 2.3 Update vehicle data.
- 2.3.1 **Additional menu** must now be selected by pressing **•F7** . Press **•F11** to confirm the question "Create vehicle analysis log (VAL)?".
- 2.3.2 Select the **Maintenance of vehicle data** function. Press **•F12** until **PR numbers** appears in the Value group column.
- 2.3.3 Select **Headlights** in the Family column.
- **Value: Select 8JU/8IU PDLS**

2.3.4 Select **Light assist. system** in the Family column.

- **Value: Select 8G4 LED**

Press •F12" to continue.

2.3.5 The selected values appear. Press •F8" to write values. Wait until the message **Generation of vehicle data is complete. .... to continue.** appears.

2.4 Adapt coding.

2.4.1 Select all control units by pressing •Ctrl A" .

2.4.2 Switch to the **Codings/adaptations** menu.

Select **Automatic coding** mode. Press •F12" to continue.

Wait until the following message appears: **Coding was completed successfully.**  
Press •F12" to continue.

### 3 **Adjust and calibrate Matrix LED headlights;** ⇒ *Workshop Manual 'Adjusting headlights'*.

94 15 23 40:	Retrofitting Matrix headlights. Includes: Removing and installing wheel housing liners and headlights. Removing and installing light bulb control unit and seal. Removing and installing LED module control unit and LED fan. Without: Adjusting headlights.	Labor time: <b>148 TU</b>
95 15 16 01:	Adjusting headlights	Labor time: <b>53 TU</b>

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