

# Installation and Conversion Instructions

911 (991)

11/16 ENU 9415

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### Black LED Headlights incl. Porsche Dynamic Light System Plus (I-no. XEY)

Concern: Retrofitting

Model Year: As of 2017

Restriction: Only for vehicles with LED headlights incl. Porsche Dynamic Light System Plus (I-no. 602).



Information: The operation and design of the black LED headlights is the same as that of the LED headlights including

Porsche Dynamic Light System Plus. Inner components and paintwork are in dark chrome metallic.

Parts Info: 991.044.902.02  $\Rightarrow$  LED headlights, USA, set

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Parts List:

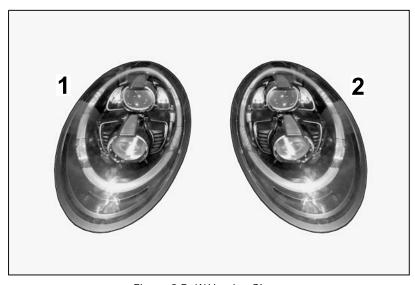


Figure 2 RoW Version Shown

— — — 1 x LED headlight, black, left, USA (XEY)— — — 1 x LED headlight, black, right, USA (XEY)

Tools: 9900 - PIWIS Tester 3

Work Procedure:



#### Information

Some of the repair illustrations show only one side of the vehicle. Naturally, some steps also have to be performed on the opposite side of the vehicle as well. These must be carried out as a mirror image of the steps shown.

### 1 Preparatory work

- 1.1 Connect a battery charger. *⇒ Workshop Manual '2X00IN Battery trickle charging'*
- 1.2 Remove front apron. ⇒ Workshop Manual '631519 Removing and installing front apron'
- 1.3 Remove headlight. ⇒ Workshop Manual '941519 Removing and installing headlights'



#### Information

Always comply with the regulations for handling ESD-sensitive components!

- Assembly work must only be carried out if the technician is wearing Porsche approved work clothes and shoes.
- The new part must only be removed from the ESD (electrostatic discharge) protective packaging just before installation and at the position at which the part is to be installed.
- Never touch the electric pins and plug contacts.

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- 2 Convert headlights.
  - 2.1 Remove light adjustment control unit ⇒
    Figure 3-2- from the standard headlight and install it on the new headlight. ⇒ Workshop
    Manual '945719 Removing and installing control unit for light adjustment'



Figure 3

- 2.2 Convert LED module  $\Rightarrow$  *Figure 4*.
  - 2.2.1 Remove LED module fan and LED module fan holder from the standard headlight. ⇒ Workshop Manual '941519 Removing and installing LED module fan'
  - 2.2.2 Remove LED module from the standard headlight and install it in the new headlight. ⇒ Workshop Manual '942419 Removing and installing LED module'



Figure 4

- 2.2.3 Install LED module fan and LED module fan holder in the new headlight. ⇒ Workshop Manual '941519 Removing and installing LED module fan'
- 2.3 Remove LED module control unit from the standard headlight.
  - 2.3.1 Unscrew screws  $\Rightarrow$  Figure 5 1-.
  - 2.3.2 Carefully disconnect LED module control unit  $\Rightarrow$  Figure 5 -2- from the headlight.
- 2.4 Fit LED module control unit on the new headlight.

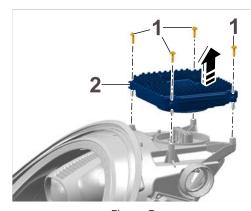


Figure 5

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  - 2.4.1 Check that the seal ⇒ Figure 6
     -3- is fitted correctly on the LED module control unit ⇒ Figure 6 -2-.
  - 2.4.2 Carefully insert LED module control unit  $\Rightarrow$  Figure 6 -2- into the headlight.
  - 2.4.3 Screw in and tighten screws  $\Rightarrow$  Figure 6-1-.



3.1 Install headlight. ⇒ Workshop Manual '941519 Removing and installing headlights'

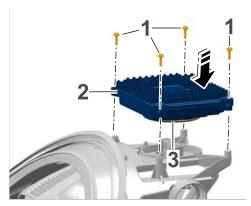


Figure 6

Install front apron. ⇒ Workshop Manual '631519 Removing and installing front apron'

### 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 70A fixed voltage 13.5V to 14.5V.



### Information

The **9818 - PIWIS Tester 2** 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 **9818 - PIWIS Tester 2**.

- 4 Code headlights.
  - 4.1 9900 PIWIS Tester 3
  - 4.2 Select vehicle type. PIWIS Tester II Diagnostics starts.
  - 4.3 Update vehicle data.

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- 4.3.1 **Additional menu** must now be selected by pressing •F7". Press •F11" to confirm the question "Create vehicle analysis log (VAL)?".
- 4.3.2 Select the **Maintenance of vehicle data** function. Press F12" until **X numbers** appears in the Value group column.
- 4.3.3 Select **XEY LED headlights, darkened + dynamic cornering light** in the Coding value column. When you touch the Installed cell, a tick appears.

Press • F12" until **M numbers** appears in the Value group column. Select **602 - LED headlights + dynamic cornering light** in the Coding value column. When you touch the Installed cell, the tick disappears.

Press • F12" to continue.

- 4.3.4 A table showing all selected coding values appears. Press •F8" to write values.

  Wait until the message **Generation of vehicle data is complete** appears.
- 4.3.5 Press •F12" to switch to Report management. Press •F10" to open the log and check whether the vehicle equipment

  XEY LED headlights, darkened + dynamic cornering light is entered.

Check that the vehicle equipment "602 - LED headlights + dynamic cornering light" is no longer entered. Close the log.

- 4.4 Headlight start-up
  - 4.4.1 Select the **Headlights**, **left/central** control unit.

    Switch to the **Maintenance/repairs** menu.
  - 4.4.2 Select the **Headlight start-up** function. Press •F12" to continue.

Follow the instructions on the PIWIS Tester until the message **Start-up completed successfully** appears. Press •F12" to continue.

Switch to the **Overview** menu. Press • F11" to go back.

- 4.5 Read out the fault memories of all systems, work through any existing faults and erase the fault memories. ⇒ Workshop Manual '033500 Fault memory for on-board diagnosis'
- 4.6 Switch off ignition and disconnect **9900 PIWIS Tester 3**.
- 5 Adjust main headlights. ⇒ Workshop Manual '941519 Removing and installing headlights'
- 6 Disconnect battery charger. ⇒ Workshop Manual '2X00IN Battery trickle charging'

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## Installation and Conversion Instructions

94152341: Retrofitting black LED headlights Labor time: **226 TU** 

Includes: Removing and installing headlights and front apron, adjusting

headlights

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