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Conversion Calculator

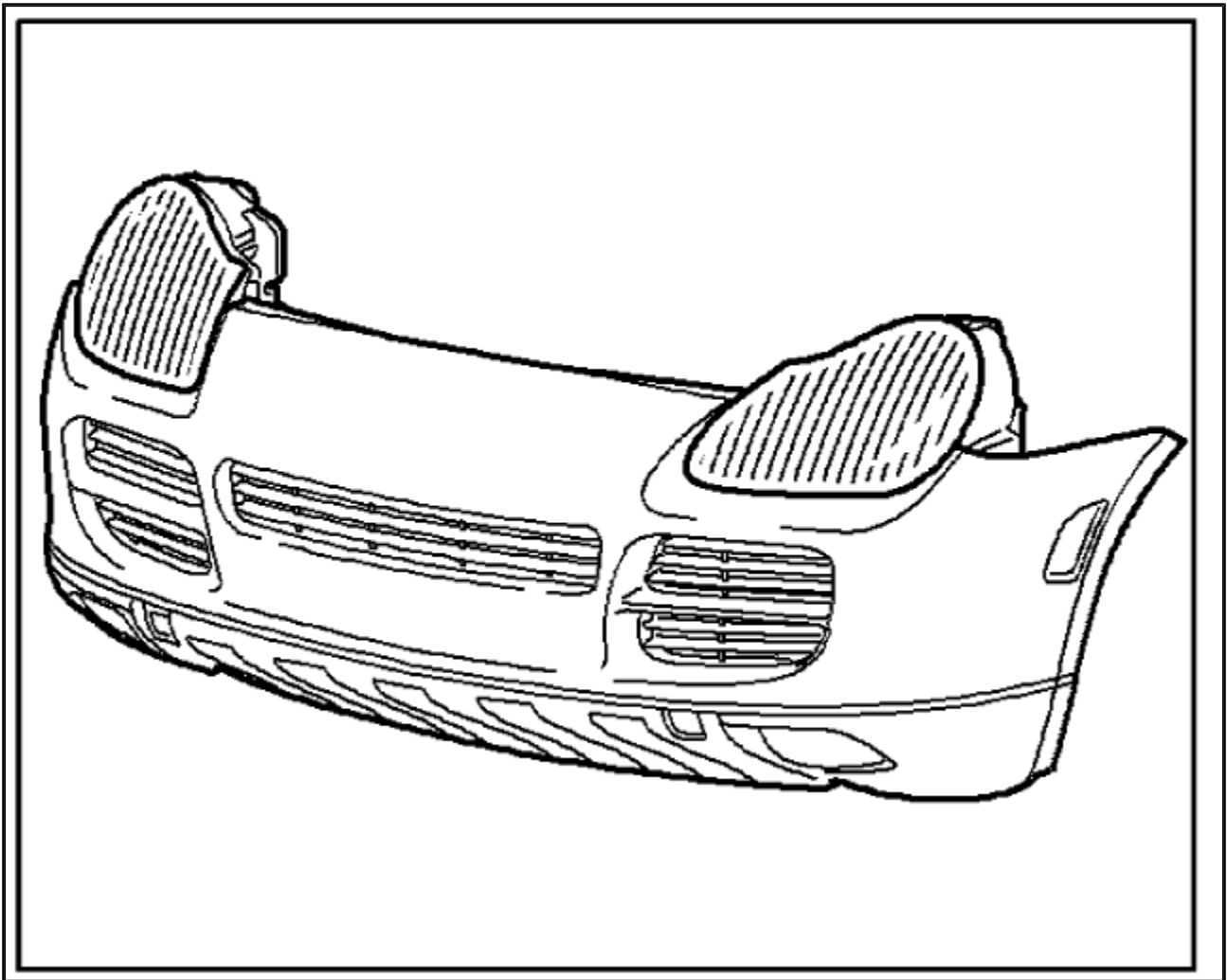
2004 Porsche Cayenne S (9PA) V8-4.5L

Vehicle Level → [Lighting and Horns](#) → [Headlamp](#) → [Service and Repair](#) → [Removing and Installing Main Headlight](#) ←

Removing and Installing Main Headlight

[Notes](#)

Removing And Installing Main Headlights



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NOTE:

- When working, carrying out tests, or adjusting the headlights on the Cayenne or

when it is in the workshop, a battery charging device with a rated current of at least **40 A** must be connected.

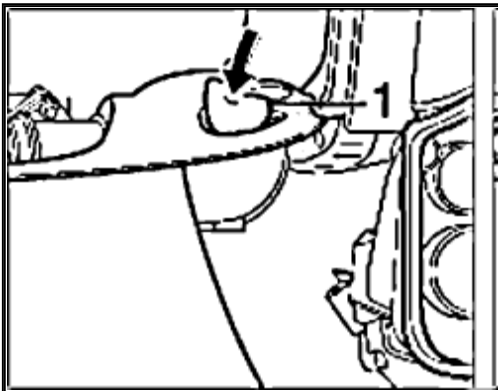
- As soon as the vehicle is unlocked, e.g. the vehicle is in the workshop or salesroom, it must be trickle charged with a battery charging device.

Removing Main Headlight

WARNING:

- Risk of destruction of electrical and electronic components:
- Before removing the headlights, take out the ignition key and switch off the lights.
- Risk of damage to the headlights due to:
- Abrasion and excessive temperatures.
- Headlights must not be covered when they are switched on, e.g. wing protection or film.

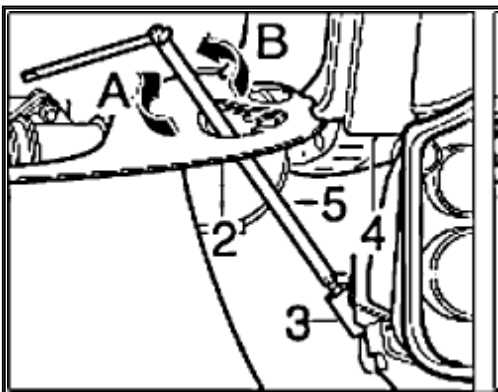
NOTE: The description refers to the left headlight.



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1. Press down the cover "1" in the engine compartment and remove it.



Zoom

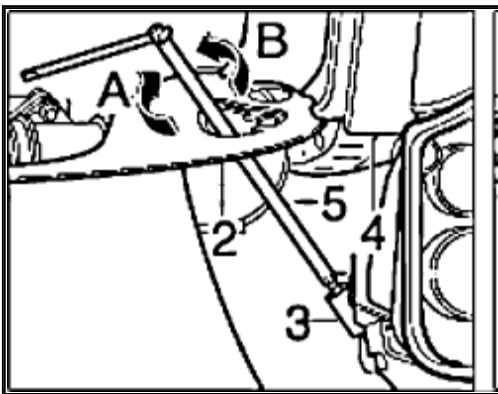
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- Slide a socket wrench "5" on the release arm and release it in the direction of arrow "A".
 - "2" Cover.
 - "3" Headlight release.
 - "4" Fender.
- The headlight is now unlocked and can be pulled forward out of the wing. **NOTE:** If the Bi-Xenon main headlight is replaced, the control unit must be installed for the gas discharge from the old to the new main headlights.

Installing Main Headlights

NOTE:

- Do not attach any covers (e.g. stone shields or films) in the area of the headlights.
- Switch ignition off and remove ignition key.
- The description refers to the left headlight.

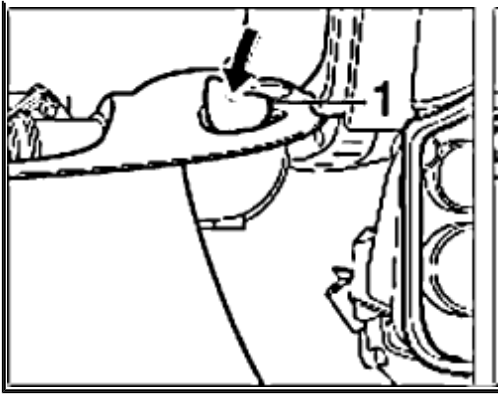


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- Insert the headlight into the guide rails and push it fully into the fender.
- Press the headlight towards the rear and, at the same time, turn the socket wrench "5" "arrow B". The headlight locking mechanism must lock in audibly and noticeably.
- Check that the headlights fit properly, e.g., by pulling gently in the area of the auxiliary high beam headlight.





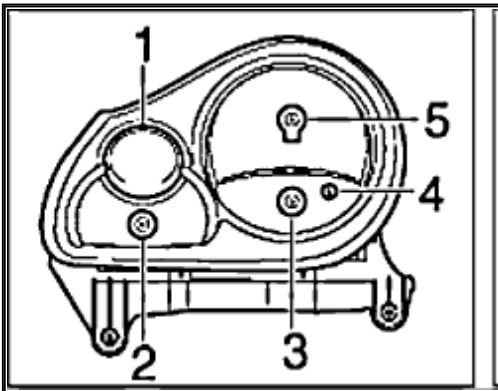
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4. Insert the cover "1" fold over.

Installation Points Of The Bulbs

Halogen headlights



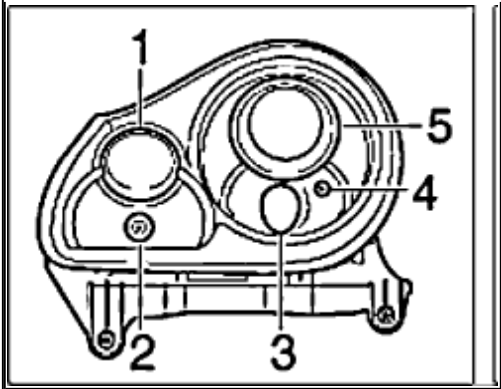
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- "1" Bulb for direction indicator light. PY **21 W, 12 V** (yellow bulb).
- "2" Bulb for auxiliary high beam headlight. H7 (**12 V, 55 W**).
- "3" Bulb for high beam headlight. H7 (**12 V, 55 W**).
- "4" Bulb for parking light. W5W (**12 V, 5 W**).
- "5" Bulb for dipped beam headlight. H7 (**12 V, 55 W**).

Bi-Xenon headlights

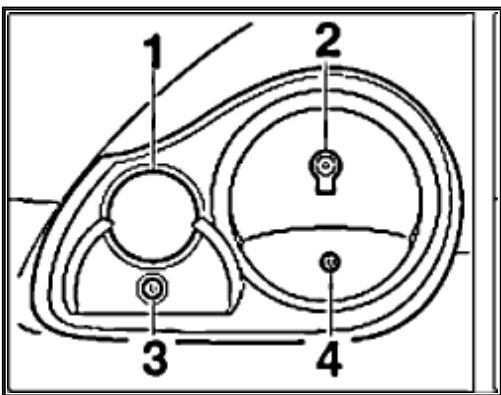




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- "1" Bulb for direction indicator light. PY 21 W, 12 V (yellow bulb).
- "2" Bulb for auxiliary high beam headlight. H7 (12 V, 55 W).
- "3" Bulb for cornering light. H3 (12 V, 55 W).
- "4" Bulb for parking light. W5W (12 V, 5 W).
- "5" Bi-Xenon gas discharge lamp for dipped beam and high beam. D1S (12 V, 35 W).

Halogen headlights USA



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- "1" Bulb for direction indicator light. PY 21 W, 12 V (yellow bulb).
- "2" Bulb for dipped beam headlight. H7 (12 V, 55 W).
- "3" Bulb for high beam headlight. H7 (12 V, 55 W).
- "4" Bulb for parking light. W5W (12 V, 5 W).

Adjusting The Main Headlights

Flexible screwdriver 9703 refer to 'Tools'

- The vehicle must be on a horizontal surface.
- Make the adjustment with the regulator switch set to 0 (headlight beam adjustment).
- Make the adjustment with the vehicle ready for driving (fuel tank full, driver's seat

occupied by a person or **75 kg** , the tire pressure must correspond to the stipulated values) using a headlight adjustment unit.

Bi-Xenon main headlight

NOTE:

- Read out the HBA fault memory and delete it before each adjustment of the headlights. To do this in the Porsche System Tester, select the menu Special functions, then select the HBA left menu or the HBA right menu, read out the fault memory, and delete it.
- If a new Bi-Xenon main headlight has been installed, the control unit must also be calibrated for level regulation before any adjustments are made.

The headlight beam adjustment (HBA) control unit is adapted to suit current conditions relating to position in the vehicle under the menu item "Calibration". The existing vehicle position is stored as zero position during calibration.

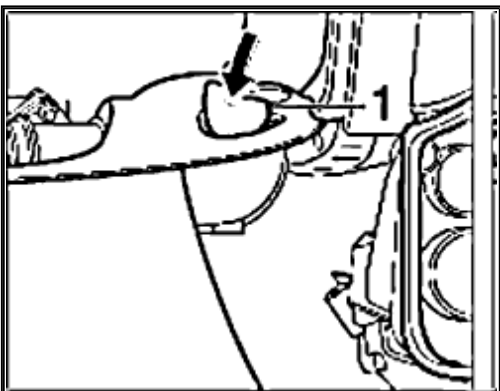
Following calibration, the headlight setting must be checked and corrected if necessary.

Calibration must be performed if changes were made that can change the position of the angle sensors:

- Headlights, complete
- HBA (Bi-Xenon) control unit
- HBA angle sensor (front and rear compression)
- Running gear components
- Damage caused by accidents

NOTE:

- When the coding is changed in the menu item Change coding, the ignition must always be switched off afterwards and the key removed.
- After the ignition is switched on again, the new coding of the control unit is updated and the stored faults can be erased.
- If the coding does not match the vehicle equipment, faults will be displayed that are not really present.



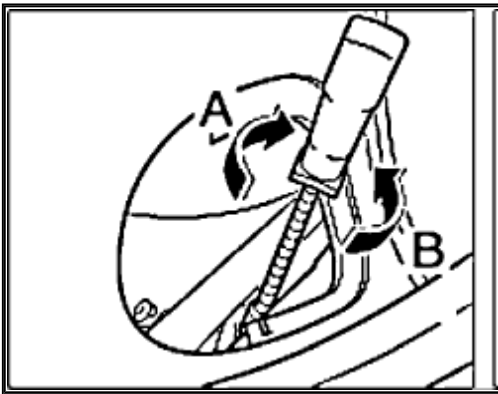
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1. Press down the cover "1" in the engine compartment and remove it.
2. Turn on the ignition, turn on dipped beam and high beam headlights.
3. Check setting, adjust if necessary. **Adjusting:**
 - Set the headlight adjustment unit to **10 cm/10 m** (1%).
 - With this alignment, preference must be given to the central zone around the salient point of the light/dark limit.

NOTE:

- The distance between the headlights and the adjustment unit should be as small as possible.
- It should not exceed **30 cm**, because if the distance is greater, it is no longer possible to define the formation of the light/dark limit in the adjustment unit clearly.
- The description refers to the left headlight.



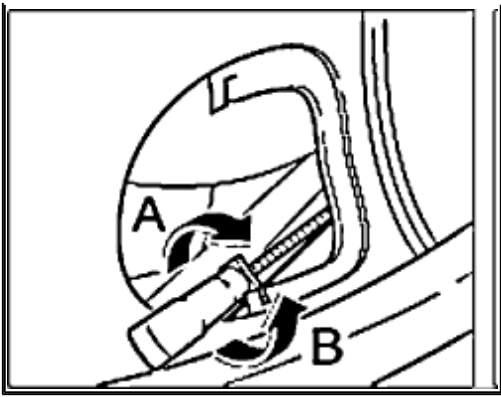
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The vertical/side adjustment of the dipped beam/high beam highlight is made first: adjustment "A" and "B".

4. To do this, line up the light/dark borderline running upwards at an angle on the right-hand side with the dotted **15°** line of the adjustment unit.

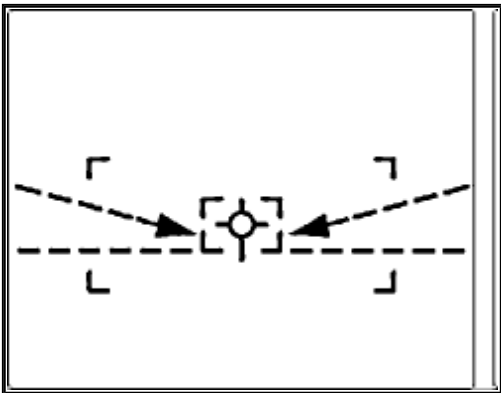




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5. The dipped beam headlight is then adjusted horizontally: adjustment "A" and "B".
NOTE: Guide the flexible screwdriver nearly horizontally through the opening in the fender.

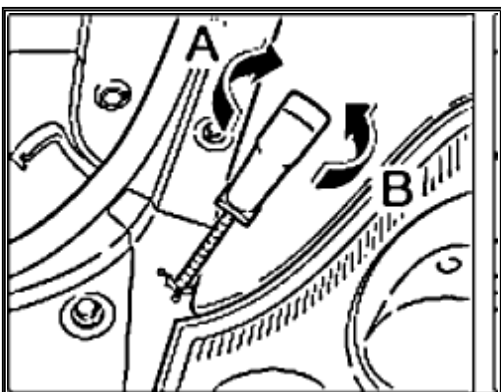


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To do this, line up the left, horizontal section of the light/dark limit (when driving on the right) with the dotted horizontal line of the adjustment unit.

NOTE: The above figure refers to the halogen headlight.



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6. Check auxiliary high beam headlight and, if necessary, adjust the side setting using "A" and "B".
7. In the case of Bi-Xenon headlights, the ignition must be switched off and on after the adjustment has been made with the lights switched on.
8. After this, the adjustment must be checked again.
9. Fit cap again.

Adjusting The Main Headlights, USA Version

NOTE: A new adjustment may only be made in the case of accident repairs or replacement of the main headlights.

- Vertical and horizontal adjustment must be carried out with a headlight adjustment unit.

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