

# Installation Instructions – Facelift LED Headlamps & Turn Signals

**Audi Q7 (4L)**



### Overview

This article is intended to provide a step-by-step guide for enthusiasts wanting to update their 2007-2009 Q7 to the LED headlamps and LED turn signals on the 2010 vehicles.

This is a relatively involved modification and we recommend a shop perform the work unless you are comfortable with wiring and programming. Total time should be 2-3 hours.

### Thanks to:

- Jaumet @ [www.clubaudiq7.com](http://www.clubaudiq7.com)
- a4ss4abt @ [www.audiforums.us](http://www.audiforums.us)

### Parts Required for Installation

#### European Lights

- 4L0 941 029 AC – Bi-Xenon Lamp – Left
- 4L0 941 030 AC – Bi-Xenon Lamp – Right
- 4L0 941 029 AD – Adaptive Bi-Xenon Lamp – Left
- 4L0 941 030 AD – Adaptive Bi-Xenon Lamp – Right

#### North American Lights

- 4L0 941 029 AK – Bi-Xenon Lamp – Left
- 4L0 941 030 AK – Bi-Xenon Lamp - Right
- 4L0 941 029 AL – Adaptive Bi-Xenon Lamp - Left
- 4L0 941 030 AL – Adaptive Bi-Xenon Lamp - Right

#### LED Turn Signals

- 4L0 953 041 D – Non S-Line, Left
- 4L0 953 042 D – Non S-Line, Right
- 4L0 953 041 E – S-Line – Left

- 4L0 953 042 E – S-Line – Right

### Related Items

- 4L0 941 613 A – Headlamp Mounting Tray, Left
- 4L0 941 614 A – Headlamp Mounting Tray, Right
- 8K0 941 597 B – Control Unit, Xenon Lamp
- 7L6 941 329 A – Control Unit, Cornering Lamp
- N 107 218 01 – Xenon Lamps (D3S 42v35w)
- 4L0 941 717 – Vent Hose, Left
- 4L0 941 718 – Vent Hose, Right
- 000 979 009 – Trigger Wire (2x needed)

### Optional Items (may not be required)

- 4F0 910 279 R – J519 Onboard Control Module – w/manual steering column
- 4F0 910 279 Q – J519 Onboard Control Module – w/electric steering column

## Installation

### Stage One – Lights

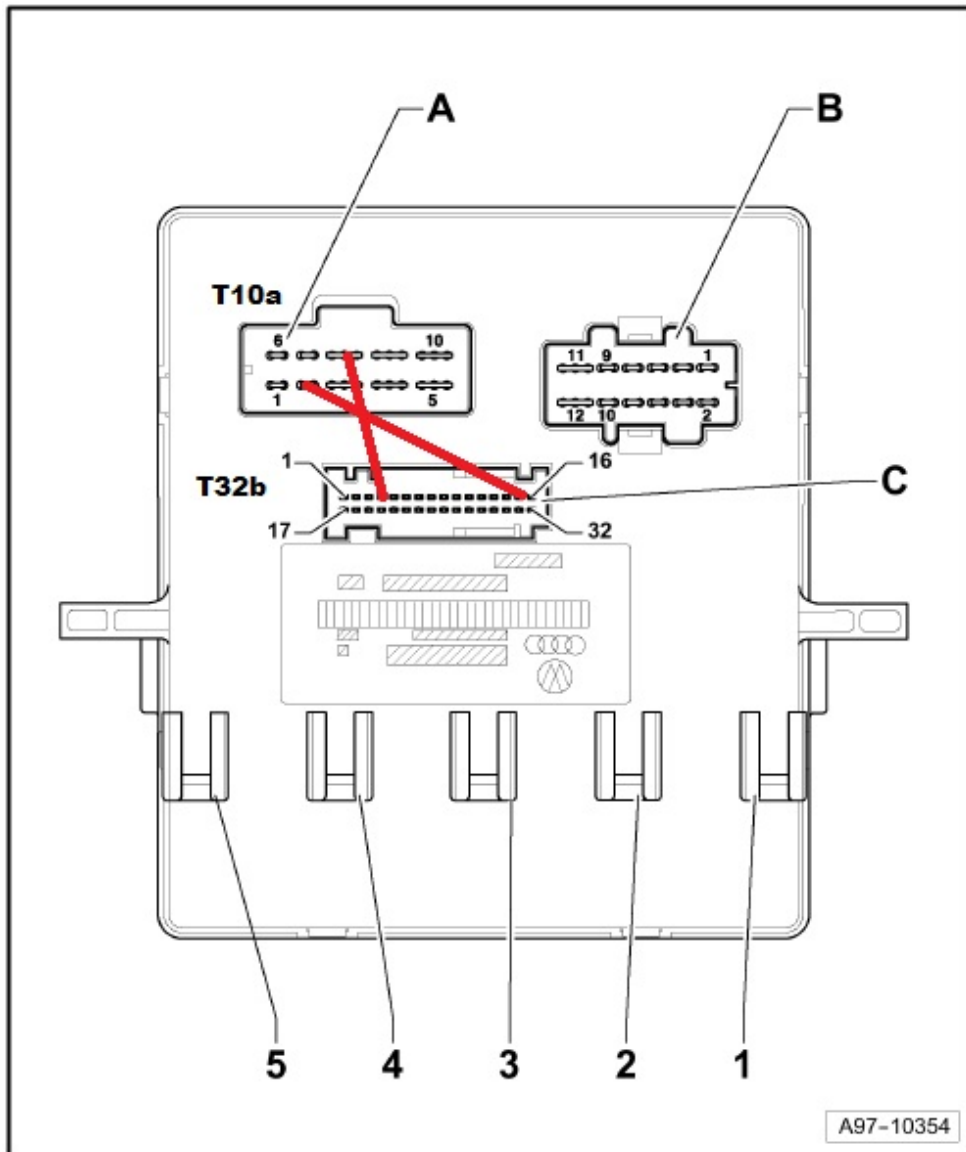
- Remove existing headlamps from the vehicle and set them aside
- Remove trays that support & secure the headlamps
- Install new trays
- Assemble new lights, taking parts from old lights as needed
- Install new lights into vehicle

### Stage Two – Wiring

- If you are adding the LED turn signals, the parking light wire will need to be moved up to the headlamp
- Remove **Pin XX** from the parking light and plug it into **Pin XX** on the headlamp

### Stage Three – J519 Module

- Remove the lower dash “kick” panel and locate the control module. It should be to the left of the steering column.
- Remove the three connectors and pull out the module. If you are able to scan the vehicle first, copy off and save all of the values associated with the module prior to removal.
- Install the new module in place of the old unit and reconnect the various connectors as they were before.
- If you do NOT update the J519 module, you can “jump” the connectors to get the required functionality.
- If you are familiar with the locking mechanisms on Audi/VW connectors, you’ll know how to access the pins. If you are not, contact a dealer or shop for help.
- Using the 000 979 009 trigger wires, connect as follows:
  - Connector A (10-pin), Pin 8 to Connector C (32-pin), Pin 4
  - Connector A, Pin 2 to Connector C, Pin 15
  - The image below is a good representation of what you are doing.



With this arrangement, the J519 Control module can switch on the new LED's with the dimming function, when the Bi-Xenon are on and with the coming-home function.

**Note:** There may be a slight flicker with this solution, as the module is not 100% correct for the light.

## Software Coding

- Using VCDS or VAS, access module 09 and select coding (07)
- Write down the value that you see in this field: \_\_\_\_\_
- If you do NOT change the 519 module, enter 0015121 in this field.
- If you DO change the 519 module, enter 0032121 for Bi-Xenon or 0033121 for Adaptive Bi-Xenon. In USA, the last digit will need to be 3.
- Confirm coding and exit.