

Lighting (17.00)

Contents

Front Lights (17.01)	17-1-2
Specifications.....	1-2
Maintenance	1-2
RH/LH Headlamp Assembly-Renew	1-2
Headlamp Alignment-Adjust	1-3
Interior Lighting (17.02)	17-2-1
Specifications.....	2-1
Rear Lights (17.03).....	17-3-1
Specifications.....	3-1
Lighting Mechanisms (17.04)	17-4-1
Headlamp Levelling (HID Only)	4-1

Lighting (17.00)

Front Lights (17.01)

Specifications

Bulbs

	Rating	Type (European)	Type (Federal)
Headlight dipped beam-HID	35W	D1S	D1S
Headlight dipped beam-Halogen	55W	H11LL	H11LL
Headlight main beam	65W	H9	H9
Side Repeater	5W	WY5W	WY5W
Side marker (front and rear)	3W	N/A	W3W

Headlamp Alignment

	European	Federal
Main Beam Alignment	1% Down	0.7% Down Vol.
Dipped Beam Alignment	1% Down	0.7% Down Vol.

Main beam is fixed to the Dipped beam.

Maintenance

RH/LH Headlamp Assembly-Renew

Repair Operation Time (ROT)		
Item	Code	
Headlamp Assembly-Renew	RH	17.01.AB
Headlamp Assembly-Renew	LH	17.01.BB

Removal

1. Disconnect vehicle battery.
2. Raise vehicle on ramp.
3. Remove LH/RH road wheel.
4. Remove intake air filter box (see Workshop Manual procedure 03.12.AB/03.12.BB Air Filter Box LH/RH Renew).
5. Disconnect headlamp multiplug (see Fig. 1).



Fig. 1

6. Remove bolts (x3) from headlamp to bracket.



Fig. 3

7. Disconnect headlamp washer supply hose (see Fig. 2).



Fig. 2

8. Remove headlamp unit (see Fig. 4).



Fig. 4

Installation

1. Connect multiplug and washer hose.

2. Position headlamp unit.
3. Install 3 Bolts from headlamp to bracket.
4. Install intake air filter box (see Workshop Manual procedure 03.12.AB/03.12.BB Air Filter Box LH/RH Renew).
5. Install road wheel.
6. Lower vehicle on ramp.
7. Connect vehicle battery
8. Check headlamp alignment (see Workshop Manual procedure 17.01.BC Headlamp Alignment - Adjust).

Headlamp Alignment-Adjust

Repair Operation Time (ROT)	
Item	Code
Headlamp Alignment-Adjust	17.01.BC

1. Top up all fluids to correct level.
2. Ensure fuel tank is 'FULL'.
3. Position 37.5 kg in each seat.
4. Remove the access panel from wheel arch liner.
5. Position beam setting equipment to vehicle.
6. Switch ignition to position 2 and back to 0 (to set headlights).
7. Check headlamp alignment.
8. Switch ignition to position 2 and back to 0 (to set headlights).
9. Check headlamp alignment.
10. Adjust headlights
11. Check headlamp alignment.
12. Remove beam setting equipment from vehicle.
13. Install the access panel to wheel arch liner.
14. Remove the 37.5 kg weights.

Front Side Repeater Lamp Assembly - Remove and Install

Repair Operation Time (ROT)	
Item	Code
Front Side Repeater Lamp Assembly - Remove and Install.	17.01.KC

Remove

1. Raise the vehicle and make it safe.
2. Remove the two M6 Torx head screws that attach the wheelarch liner at the middle of the wheelarch.
3. Move the wheelarch liner to get access to the repeater lamp assembly.
4. Disconnect the electrical connector for the side repeater lamp.
5. Turn the side repeater lamp assembly clockwise (When you look from outside the wing) and pull the assembly out of the wing.

Install

1. Install the side repeater lamp assembly into the wing. Turn the assembly counterclockwise to attach it.

2. Install the electrical connector to the side repeater lamp.
3. Put the wheelarch liner back into position.
4. Install the two M6 Torx head screws that attach the wheelarch liner.
5. Lower the vehicle.

Front Side Repeater Bulb - Remove and Install

Repair Operation Time (ROT)	
Item	Code
Front Side Repeater Bulb - Remove and Install.	17.01.KD

Remove

1. Raise the vehicle and make it safe.
2. Remove the two M6 Torx head screws that attach the wheelarch liner at the middle of the wheelarch.
3. Move the wheelarch liner to get access to the repeater lamp assembly.
4. Hold the side repeater body and turn the bulb holder assembly counterclockwise and pull it out of the body.

⚠ WARNING ⚠
BE CAREFUL WHEN YOU INSTALL AND REMOVE THE BULB. THE GLASS OF THE BULB CAN BREAK AND CAUSE INJURY.

5. Pull the bulb to release it from the bulb holder.

Install

⚠ WARNING ⚠
BE CAREFUL WHEN YOU INSTALL AND REMOVE THE BULB. THE GLASS OF THE BULB CAN BREAK AND CAUSE INJURY.

1. Push the bulb into the bulb holder.
2. Align the bulb holder assembly with the side repeater body.
3. Push the bulb holder assembly into the side repeater body and turn it clockwise to lock it.
4. Put the wheelarch liner back into position.
5. Install the two M6 Torx head screws that attach the wheelarch liner.
6. Lower the vehicle.



ASTON MARTIN

Lighting (17.00)

Interior Lighting (17.02)

Specifications

Bulbs		
	Rating	Type
Reading lamp	3W	W3W
Boot lamp	10W	C10W

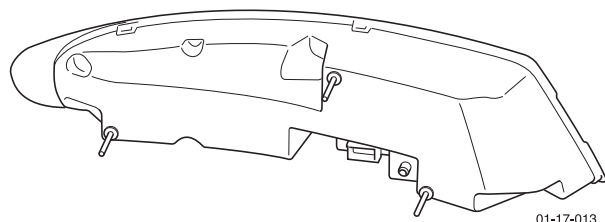


ASTON MARTIN

Lighting (17.00)

Rear Lights (17.03)

The rear light cluster is a sealed unit. If any light which fails to illuminate is traced back to the rear light cluster, replace the whole unit.



Specifications

Bulbs

	Rating	Type
Rear light cluster		LED
Rear side marker	3W	W3W
Number plate	5W	W5W
High Mounted Stop Lamp		LED

Maintenance

Licence Plate Illumination Bulb - Remove and Install

Repair Operation Time (ROT)

Item	Code
Licence Plate Illumination Bulb - Renew Left	17.03.DB
Right	17.03.DC

Remove

CAUTION:
YOU MUST USE THE SPECIAL TOOL AT THE END OF THE LAMP ASSEMBLY THAT HAS THE CUT-OUT OR THE LENS ON THE LAMP ASSEMBLY WILL BREAK.

1. Only use the special tool No.43-28094 (see Figure 17-01-001) with the side of the lamp assembly that has the cut-out (see Figure 17-01-002).



Figure 17-03-001

Note: This is because of the design of the lamp retaining mechanism in the bumper.

Note: The tool that is supplied will have a wooden handle and not a plastic one as shown in Figure 17-03-001

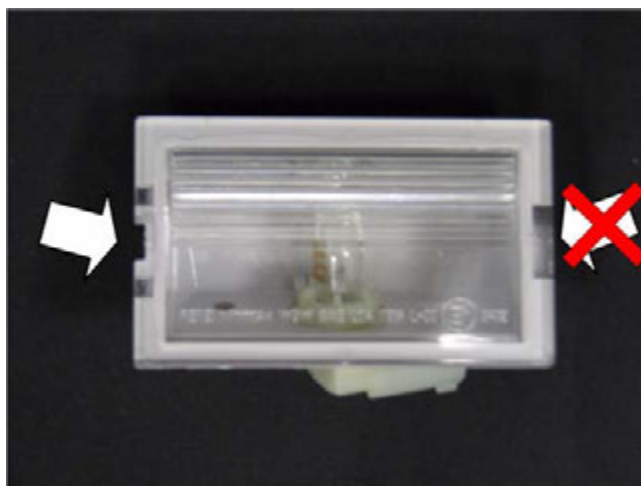


Figure 17-03-002

2. Put the tip of the tool between the lamp assembly and the bumper (see Figure 17-03-003).



Figure17-03-003

3. Lever against the bumper to pull the lamp assembly from the bumper.

Note: There will be a loud noise when the lamp assembly is released. This is usual.

⚠ WARNING ⚠

BE CAREFUL WHEN YOU INSTALL AND REMOVE THE BULB. THE GLASS OF THE BULB CAN BREAK AND CAUSE INJURY.

4. Turn and pull the bulb holder out of the lamp assembly.
5. Carefully pull the bulb out of the bulb holder.

Install

⚠ WARNING ⚠

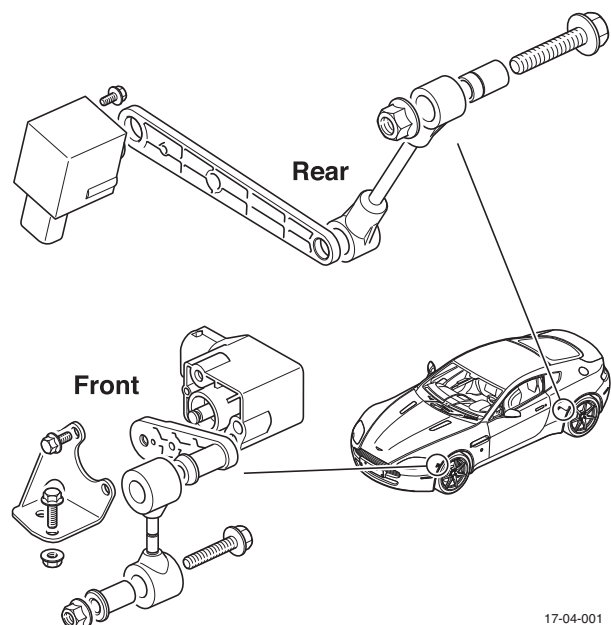
BE CAREFUL WHEN YOU INSTALL AND REMOVE THE BULB. THE GLASS OF THE BULB CAN BREAK AND CAUSE INJURY.

1. Push the bulb fully into the bulb holder.
2. Push the bulb holder into the lamp assembly and turn it to lock it in position.
3. Put the lamp assembly into position and push it to engage the attachment clips.

Lighting (17.00)

Lighting Mechanisms (17.04)

Headlamp Levelling (HID Only)



17-04-001

The 'Automatic Dynamic Headlamp Levelling System' consists of:

- An Automatic Dynamic Headlamp Levelling System ECU
- A level sensor for the front suspension
- A level sensor for the rear suspension
- A bi-polar stepper motor mounted in the housing of each headlamp

The Automatic Dynamic Headlamp Levelling System prevents the dipped beam dazzling oncoming road traffic by varying the angular position of the dipped (and main beam) headlamp units relative to the position of the vehicles suspension.

Static condition - Compensates for boot or occupant load condition.

Dynamic condition - Compensates for suspension movements due to acceleration and deceleration. The sensitivity of the system is dependent on vehicle speed and the rate of change of the vehicle speed.

High amplitude low frequency inputs such as those caused by potholes are filtered out to desensitise the system in constant speed situations.

