

Lighting (17.00)

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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. Raise vehicle on ramp.
2. Remove LH/RH road wheel.
3. Remove LH/RH wheel arch liner (see Workshop Manual procedure 01.02.FB/01.02.GB Wheel Arch Liner - Front - LH/RH - Renew).
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. Disconnect headlamp washer supply hose (see Fig. 2).



Fig. 2

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



Fig. 3

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



Fig. 4

Installation

1. Position headlamp unit.

2. Connect multiplug and washer hose.
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 wheel arch liner (see Workshop Manual procedure 01.02.FB/01.02.GB Wheel Arch Liner - Front - LH/RH - Renew).
6. Install road wheel.
7. Lower vehicle on ramp.
8. Check headlamp alignment.

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 37.5kg weights

Dip Beam Bulb-Renew

Repair Operation Time (ROT)	
Item	Code
Dip Beam Bulb-Renew	17.01.CB

Removal

1. Disconnect vehicle battery.
2. Remove rubber cover (see Fig. 1).



Fig. 1

3. Disconnect multiplug and remove spring clip and bulb unit (see Fig. 2).

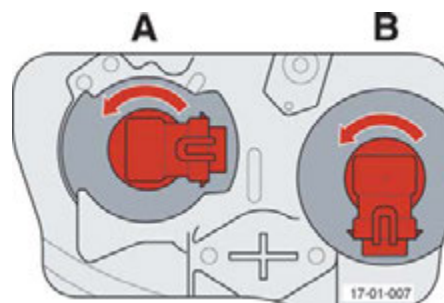


Fig. 2

Installation

1. Insert a new bulb unit and secure with spring clip.
2. Connect multiplug.
3. Fit rubber cover.
4. Connect vehicle battery.

Main Beam Bulb-Renew

Repair Operation Time (ROT)	
Item	Code
Main Beam Bulb-Renew	17.01.GB

Removal

1. Disconnect vehicle battery.
2. Remove access panel from wheel arch liner.
3. Remove head light access cover.
4. Disconnect multiplug.
5. Turn bulb holder anti-clockwise and release from retainer.
6. Remove bulb from holder.

Installation

1. Insert bulb into its holder and turn clockwise to secure.
2. Connect multiplug.
3. Install headlight access cover.
4. Install wheel arch access liner panel.
5. Connect battery.

Side Repeater Lamp Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Side Repeater Lamp Assembly-Renew	17.01.KC

Removal

1. Remove wheel arch liner (see Workshop Manual procedure 01.02.FB/01.02.GB Wheel Arch Liner - Front - LH/RH - Renew).
2. Disconnect the side repeater multiplug.
3. Turn bulb holder anticlockwise to release the bulb and holder assembly.



4. Turn the assembly clockwise (looking at the lens) and remove.

Installation

1. Install assembly into front wing and turn counter-clockwise until the stop.
2. Install bulb and holder assembly.
3. Connect side repeater multiplug.
4. Install wheel arch liner (see Workshop Manual procedure 01.02.FB/01.02.GB Wheel Arch Liner - Front - LH/RH - Renew).

Lighting (17.00)

Interior Lighting (17.02)

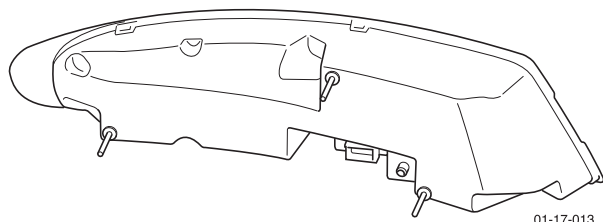
Specifications

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



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.



01-17-013

Specifications**Bulbs**

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

Maintenance**RH/LH Rear Lamp Assembly-Renew**

Repair Operation Time (ROT)		
Item		Code
Rear Lamp Assembly-Renew	RH	17.03.AB
Rear Lamp Assembly-Renew	LH	17.03.AA

Removal

1. Open tailgate.
2. Remove tyre sealant container (RH only).
3. Partially remove tailgate seal (see Fig. 1).

**Fig. 1**

4. Partially release carpet from body.

5. Remove nuts (x3), star washers (x3), plain washers (x3) and rubber seals (x3) (see Fig. 2).

**Fig. 2**

6. Disconnect multiplug and remove rear lamp assembly (see Fig. 3).

**Fig. 3****Installation**

1. Position rear lamp assembly and connect multiplug.
2. Install rubber seals (x3), plain washers (x3) and star washers (x3).
3. Install and tighten nuts (x3).
4. Secure carpet to body.
5. Install tailgate seal to body.
6. Install tyre sealant container (RH only).
7. Close talgate.

High Mounted Stop Lamp (HMSL) Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
High Mounted Stop Lamp (HMSL) Assembly-Renew	17.03.BE

Removal

1. Remove tailgate trim panel (see Workshop Manual procedure 01.05.EF Trim - Tailgate Lid Assembly - Renew).
2. Disconnect multiplug.

3. Remove securing nuts (x2) and put unit to one side.

Installation

1. Install light unit and secure with nuts (x2).
2. Connect multiplug.
3. Install tailgate trim panel (see Workshop Manual procedure 01.05.EF Trim - Tailgate Lid Assembly - Renew).

RH/LH Reflector-Renew

Repair Operation Time (ROT)		
Item		Code
Reflector-Renew	RH	17.03.CB
Reflector-Renew	LH	17.03.CD

Removal

1. Remove rear bumper (see Workshop Manual procedure 01.19.BA Cover Assembly - Rear Bumper - Renew).
2. Remove speed nuts (x2) securing RH/LH rear reflector to bumper.

Installation

1. Position RH/LH rear reflector to bumper and install speed nuts.
2. Install rear bumper (see Workshop Manual procedure 01.19.BA Cover Assembly - Rear Bumper - Renew).

RH/LH Licence Plate Lamp-Renew

Repair Operation Time (ROT)		
Item		Code
Licence Plate Lamp-Renew	RH	17.03.DC
Licence Plate Lamp-Renew	LH	17.03.DB

Removal

1. Remove rear bumper (see Workshop Manual procedure 01.19.BA Cover Assembly - Rear Bumper - Renew).
2. Remove number plate lamp mounting bracket. (clips x5).
3. Remove number plate lamp assemblies.

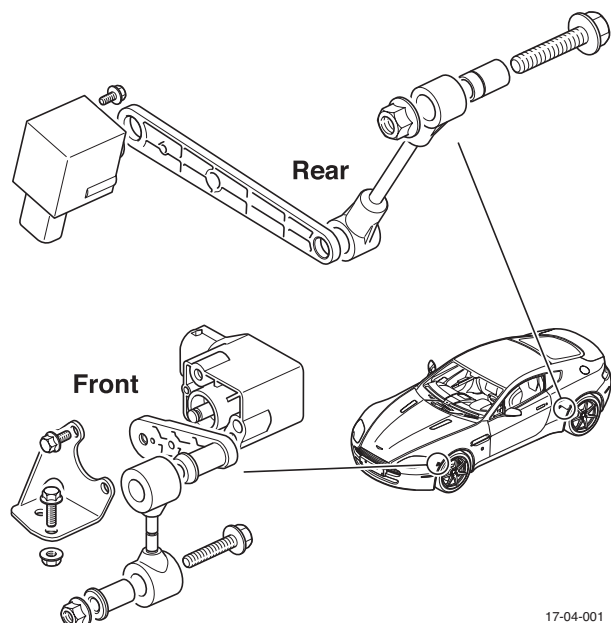
Installation

1. Install number plate lamp assemblies
2. Install number plate lamp mounting bracket.
3. Install rear bumper (see Workshop Manual procedure 01.19.BA Cover Assembly - Rear Bumper - Renew).

Lighting (17.00)

Lighting Mechanisms (17.04)

Headlamp Levelling (HID Only)



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.

Maintenance

Headlamp Levelling Module-Renew

Repair Operation Time (ROT)	
Item	Code
Headlamp Levelling Module-Renew	17.04.AB

Removal

1. Remove IP unit from vehicle (see Workshop Manual procedure 01.12.AB Facia Assembly - LHD - Remove for Access and Refit).
2. Drill out pop-rivets (x2), disconnect multiplug.

Installation

1. Install headlamp levelling module, secure module with pop-rivets (x2) and connect multiplug.
2. Install IP unit into vehicle (see Workshop Manual procedure 01.12.AB Facia Assembly - LHD - Remove for Access and Refit).



Lighting (17.00)

Lighting Switches (17.05)

Maintenance

Master Lighting Switch Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Master Lighting Switch Assembly-Renew	17.05.AA

Removal

1. Release and remove driver's side lower instrument panel, clips (x7), disconnect air temperature pipe.
2. Remove screws (x3) securing master lighting switch to Instrument panel.
3. Disconnect multiplugs (x2).

Installation

1. Connect multiplugs (x2).
2. Install master lighting switch.
3. Connect air temperature pipe and Install driver's side lower instrument panel.