

Lighting (17.00)

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Lighting (17.00)

Front Lights (17.01)

Specifications

Bulbs			
	Rating	Type (European)	Type (Federal)
Headlight dipped beam	35W	D1S	D1S
Headlight main beam	65W	H9	H9
Front Indicators	27W / 29W	PY27W	3457 AK
Front Position Lamp	5W	W5W (Blue)	W5W (Blue)
Side Repeater	5W	WY5W	WY5W
Side marker (front and rear)	5W	N/A	W5W
Headlamp Alignment		European	Federal
Main Beam Alignment		1.5% Down	0.7% Down Vol.
Dipped Beam Alignment		1.5% Down	0.7% Down Vol.
Main beam is fixed to the Dipped beam.			

Maintenance

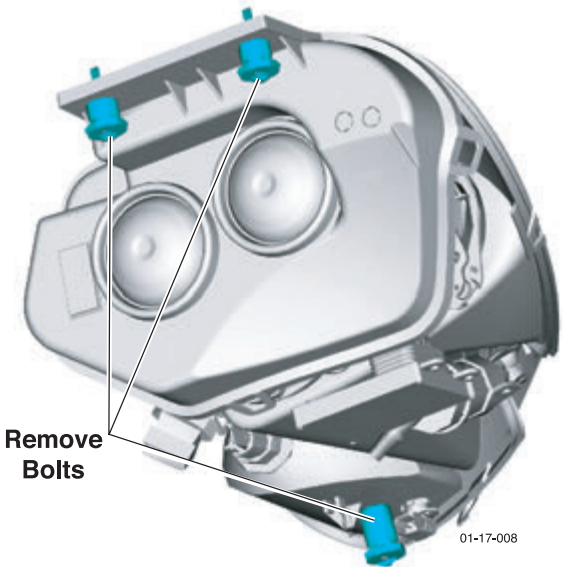
Headlamp Unit

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

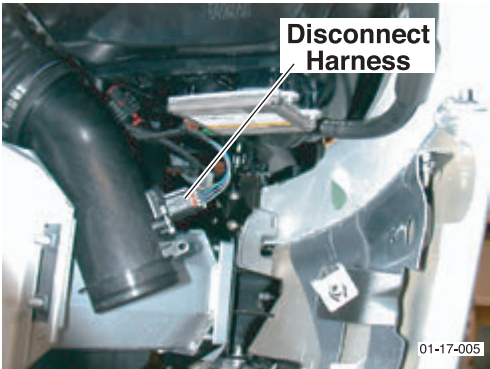
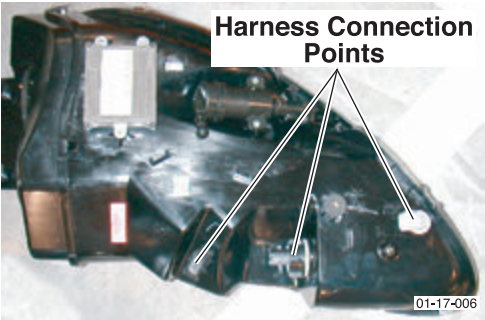
(Including side light and indicator)

Removal

1. Raise the vehicle and make safe.
2. Remove the road wheel and road wheel arch liner.
3. Remove the air box (Refer to 'Air Charging (03.12)', page 3-13-1).
4. Remove bolts (x3) securing the headlamp unit bracket.



5. Disconnect the headlamp unit wiring harness plugs (x3)



6. Withdraw the headlamp unit.

Installation

7. Install the headlamp unit.
8. Install the air box (Refer to 'Air Charging (03.12)', page 3-13-1).
9. Install the road wheel arch liner.
10. Install the road wheel (Refer to 'Road Wheel Nut Torque Tightening', page 4-5-7).
11. Carry out headlamp unit alignment procedure.

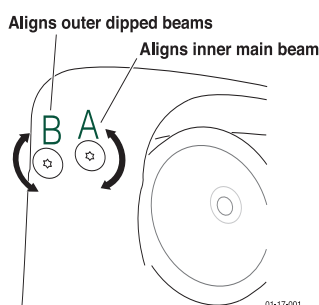
Headlight Alignment

Headlight alignment should be carried out with vehicle at design weight, i.e.,

- Vehicle at kerb weight, plus
- All fluids at normal full level, plus
- A 75 kg weight in each front seat

1. Remove the access panel from the road wheel arch liner.
2. Switch the ignition to position 'II' then back to position '0'.

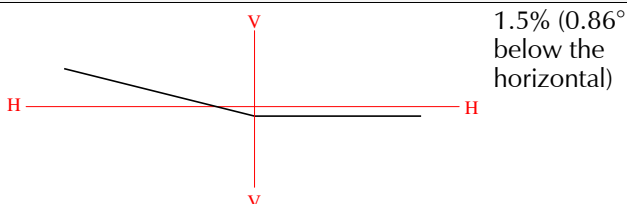
This will motor the headlight units to their 'set' position.



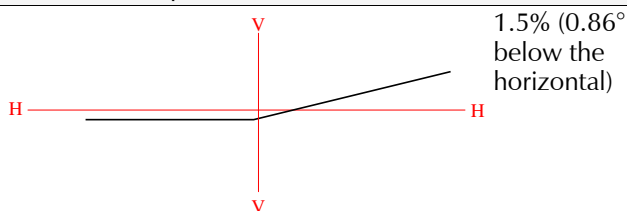
3. ROW Only.

Align the headlamps so that the cut off of the dipped beam is 1.5% below the horizontal.

LHD Headlamps



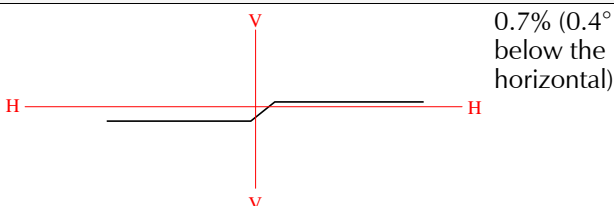
RHD Headlamps



4. Federal Only.

Align the headlamps so that the LH cut off of the dipped beam is 0.7% below the horizontal.

Federal Headlamps



5. Switch the ignition to position 'II' then back to position '0' to ensure that the headlight units are at their set position.
6. Check the headlight unit alignment again to confirm correct alignment.

Continental Conversion

(UK Spec only)

1. Disconnect the vehicle battery.
2. Gain access to the headlight unit by removing the access panel in the road wheel arch liner.
3. Remove both rubber covers.

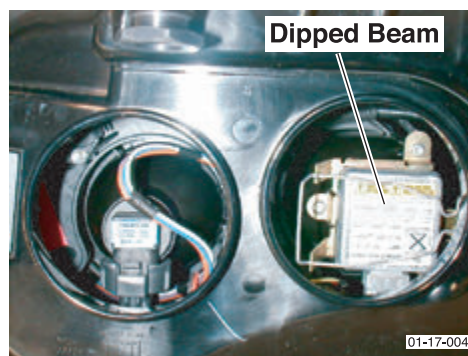
⚠ Warning ⚠

HID bulbs start-up voltage can be as much as 1000v. Ensure power to HID bulbs has been disconnected before attempting to service them. Failure to do this may result in a severe injury or death.

⚠ Warning ⚠

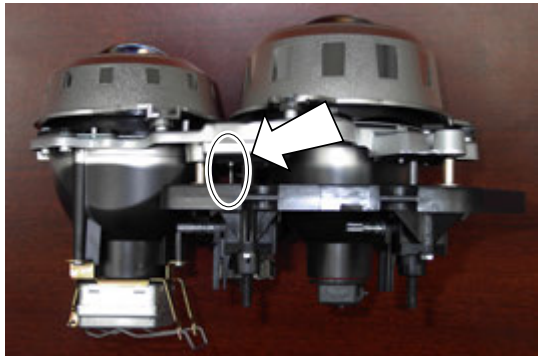
HID bulbs get hot during operation. Allow at least 15 minutes for headlamp assemblies to cool before attempting to service them. Failure to do this may result in burns to skin or clothing.

4. Disconnect the dipped beam bulb unit wiring harness plug. Remove the spring clip and withdraw the bulb unit.

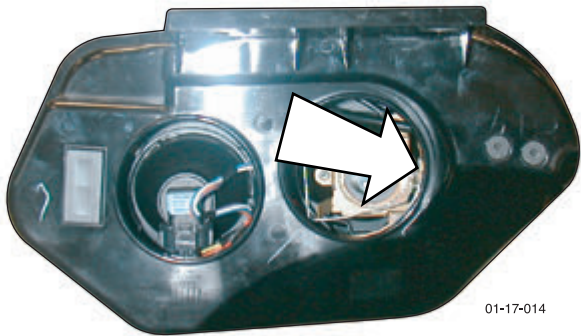


5. Locate the conversion switch and move up / down until a positive 'click' is heard.

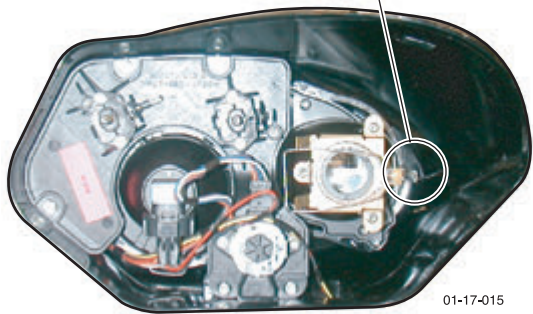
LH Headlamp Unit



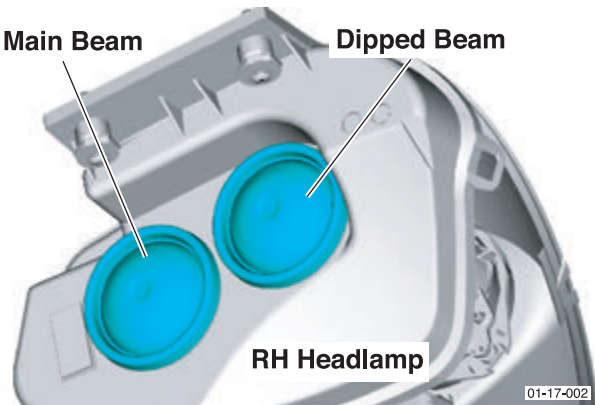
RH Headlamp Unit



Light Adjustment
Switch, UK Spec



Bulb Renewal



Gain access to the headlight unit by first removing the access panel in the road wheel arch liner.

Dipped Beam

Repair Operation Time (ROT)		
Item	Code	
Dipped Beam Renew	LH	17.01.CB
	RH	17.01.DB

HID Bulb Disposal

Always dispose of HID bulbs in a responsible manner.
Follow your local authorised standards for disposal.

The following precautions must be observed when handling HID bulbs. Failure to comply may result in exposure to ultra violet rays, severe electric shock, burns or risk of explosion.

⚠ Warning ⚠

**HID bulbs start-up voltage can be as much as 1000v.
Ensure power to HID bulbs has been disconnected
before attempting to service them. Failure to do this
may result in a severe injury or death.**

⚠ Warning ⚠

**HID bulbs get hot during operation.
Allow at least 15 minutes for headlamp assemblies to
cool before attempting to service them. Failure to do
this may result in burns to skin or clothing.**

⚠ Warning ⚠

**Never switch on lamps or test bulbs with the lamp
holder detached from headlamp.**

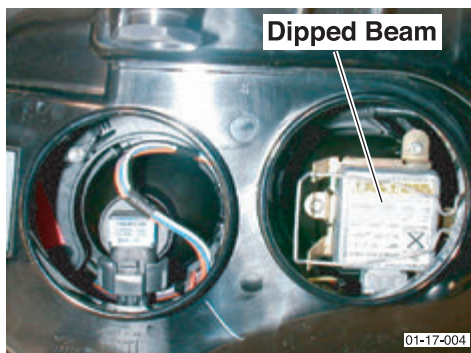
⚠ Warning ⚠

Eye and hand protection must be worn.

6. Install the dipped beam bulb unit. Connect wiring harness plug.
7. Install both rubber covers.
8. Install the access panel in the road wheel arch liner.
9. Connect the vehicle battery.

1. Disconnect the vehicle battery.
2. Remove the rubber cover.

3. Disconnect wiring harness plug. Remove the spring clip and withdraw the bulb unit.



4. Insert a new bulb unit. Secure with the spring clip and connect the wiring harness plug.
5. Connect the vehicle battery.

Main Beam

Repair Operation Time (ROT)		
Item	Code	
Main Beam Renew	LH	17.01.GB
	RH	17.01.HB

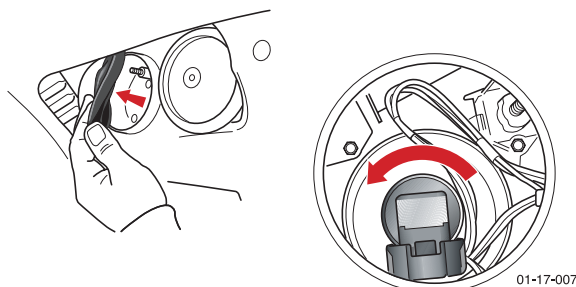
⚠ Warning ⚠

HID bulbs start-up voltage can be as much as 1000v. Ensure power to HID bulbs has been disconnected before attempting to service them. Failure to do this may result in a severe injury or death.

⚠ Warning ⚠

HID bulbs get hot during operation. Allow at least 15 minutes for headlamp assemblies to cool before attempting to service them. Failure to do this may result in burns to skin or clothing.

1. Disconnect the vehicle battery.
2. Twist the bulb holder anti-clockwise and pull out from it's retainer. Disconnect the wiring harness plug.
3. Connect the wiring harness plug to the new the bulb and insert the bulb unit into it's retainer. Twist clockwise to secure.

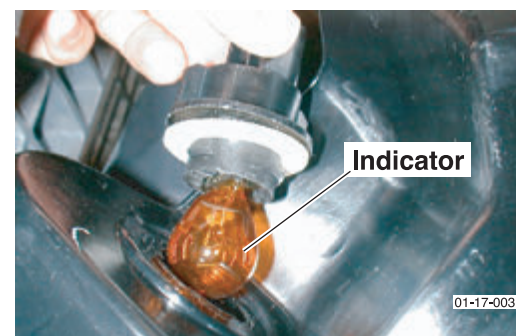


4. Connect the vehicle battery.

Indicator and Side Light

Repair Operation Time (ROT)		
Item	Code	
Indicator Bulb Renew	LHF	17.01.EB
	RHF	17.01.FB
Side Bulb Renew	LHF	17.01.JB
	RHF	17.01.KB

1. Rotate the bulb holder a quarter turn anti-clockwise and withdraw.



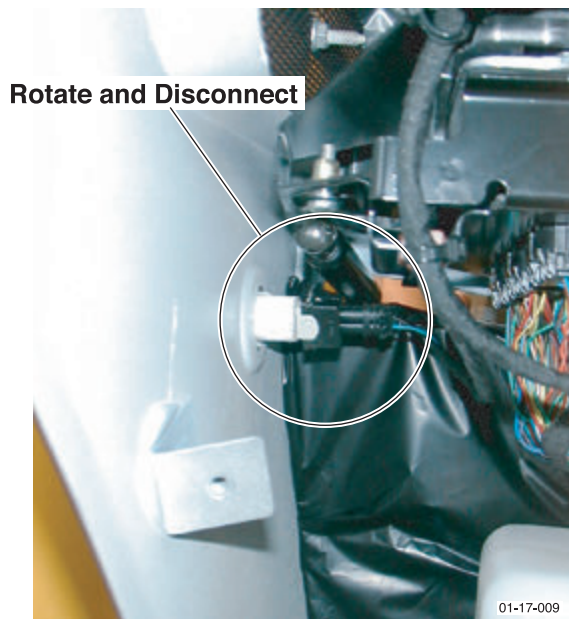
2. Pull the bulb from it's holder and withdraw the bulb.
3. Install a new bulb and turn push to lock.
4. Install the bulb holder to the headlamp light cluster and install the rear lamp access panel.

Side Repeater Unit

Repair Operation Time (ROT)		
Item	Code	
Side Repeater Unit Renew	LH	TBA
	RH	TBA

Renewal

1. Protect surrounding paint work and rotate the repeater unit clockwise approx. 30°. Withdraw the repeater unit from the vehicle and disconnect the wiring harness plug.



2. To change the bulb. Hold the side repeater unit and turn the bulb holder 90° anti-clockwise. Withdraw the bulb and install a new one.
3. To change the side repeater unit. Connect the wiring harness plug to a new side repeater unit and install.

Side Marker Unit Bulb

Repair Operation Time (ROT)		
Item	Code	
Side Marker Unit Bulb Renew	LH	TBA
	RH	TBA

Federal Markets Only

Renewal (Front and Rear)

1. **Front Side Marker Unit Only.**
Remove part of the road wheel arch liner to gain access to the bulb holder.
2. **Rear Side Marker Unit Only.**
Remove the rear light cluster to gain access to the bulb holder (Refer to 'Light Cluster', page 17-3-1).
3. Twist the side marker unit bulb holder 90° anti-clockwise and pull from the side marker unit.
4. Install a new bulb to the bulb holder. Insert the bulb holder to the side marker unit. Twist 90° clockwise to lock in place.

5. **Front Side Marker Unit Only.**
Install the road wheel arch liner.
6. **Rear Side Marker Unit Only.**
Install the rear light cluster (Refer to 'Light Cluster', page 17-3-1).

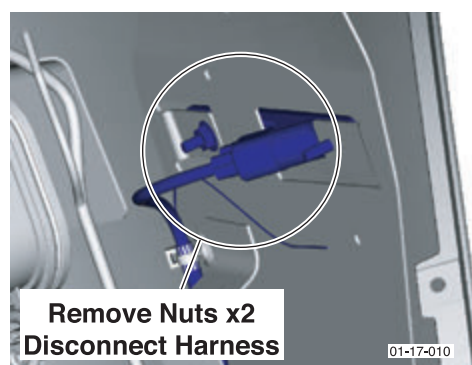
Side Marker Unit

Repair Operation Time (ROT)		
Item	Code	
Side Marker Unit Renew	LH	TBA
	RH	TBA

Federal Markets Only

Renewal (Front and Rear)

1. **Front Side Marker Unit Only.**
Remove part of the road wheel arch liner to gain access to the rear of the side marker unit.
2. **Rear Side Marker Unit Only.**
Remove the rear bumper to gain access to the rear of the side marker unit (Refer to 'Rear Bumper', page 1-13-3).
3. Remove speed nuts (x2) that secure the side marker unit to the bumper. Withdraw the side marker unit.



4. Disconnect the wiring harness plug at the rear of the side marker unit and remove the assembly.
5. Connect the wiring harness plug to a new side marker unit and install.
6. **Front Side Marker Unit Only.**
Install the road wheel arch liner.
7. **Rear Side Marker Unit Only.**
Install the rear bumper (Refer to 'Rear Bumper', page 1-13-3).

Lighting (17.00)

Interior Lighting (17.02)

Specifications

Bulbs

	Rating	Type
Reading lamp	3W	W3W
Rear occupant lamp	3W	W3W
Boot lamp	3W	W3W

Maintenance

Interior Light Bulb

Renew

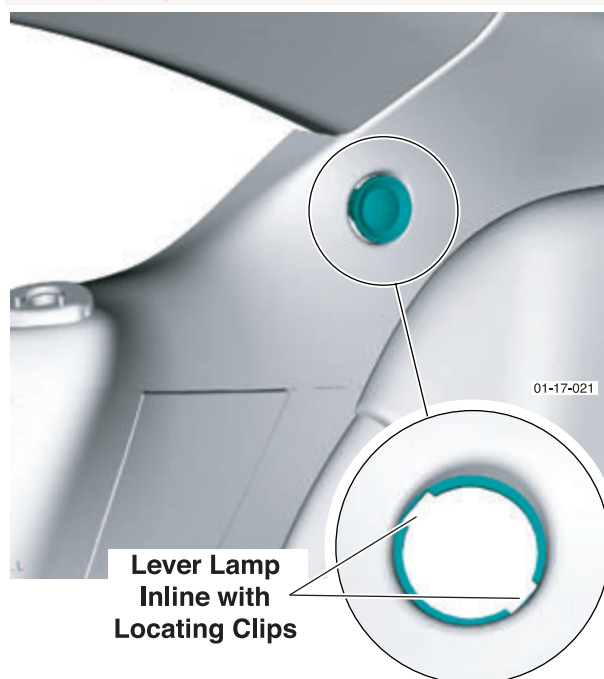
Repair Operation Time (ROT)

Item	Code
Interior Bulb Renew	17.02.AB

1. Taking care to protect the trim panel, lever the lamp unit from the trim panel.

Lever the lamp unit from the trim panels inline with the locating clips.

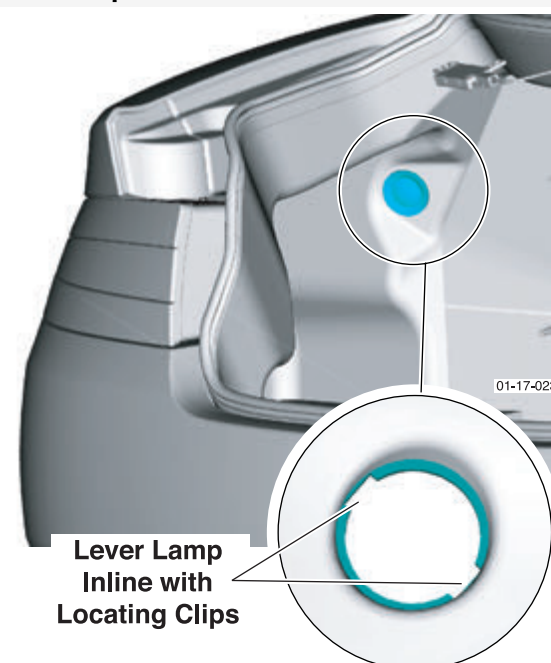
Reading Lamp



Rear Quarter Lamp



Boot Lamp



2. Twist the bulb holder approx. 20° anti-clockwise and withdraw the bulb holder. Pull the from the bulb holder and install a new bulb.
3. Push the lamp unit back into the recess in the trim panel.

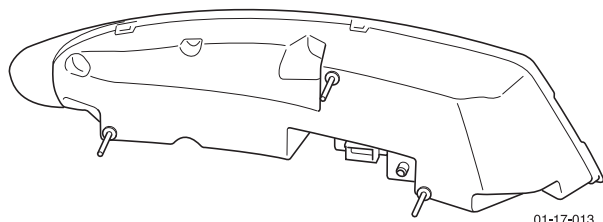


ASTON MARTIN

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	C5W
High Mounted Stop Lamp		LED

Maintenance

Light Cluster

Repair Operation Time (ROT)		
Item	Code	
Rear Light Cluster Renew	LH	17.03.AB
	RH	17.03.BB

Remove

1. Open the boot and remove the trim from around the light cluster mounts.
2. Release and remove nuts (x3).
3. Withdraw the rear light cluster unit.
4. Disconnect the wiring harness plug.

Installation

1. Place the rear light cluster unit to vehicle and connect the wiring harness plug.
2. Insert the rear light cluster unit into position.
Ensure the rubber seal is in position. Tighten nuts (x3).

Ensure that the light cluster profile matches the surrounding panels.

Side Marker Units

Refer to 'Front Lights (17.01)' for all information on the rear side marker lights.

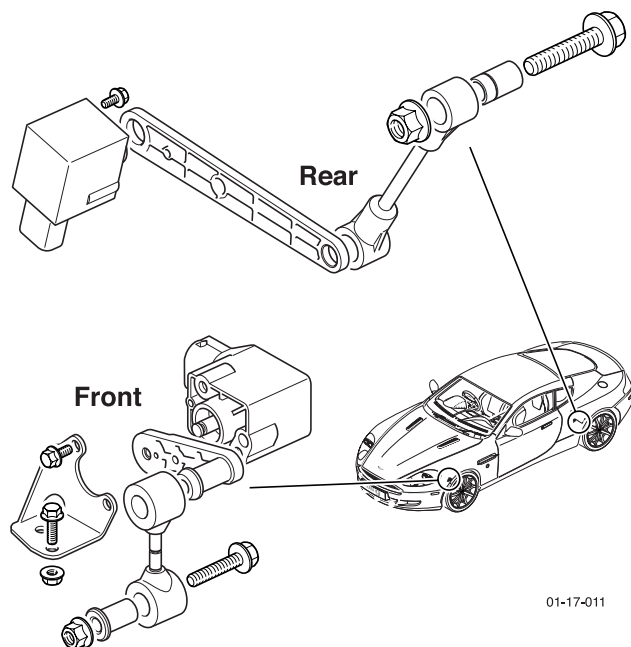


ASTON MARTIN

Lighting (17.00)

Lighting Mechanisms (17.04)

Headlamp Levelling



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.

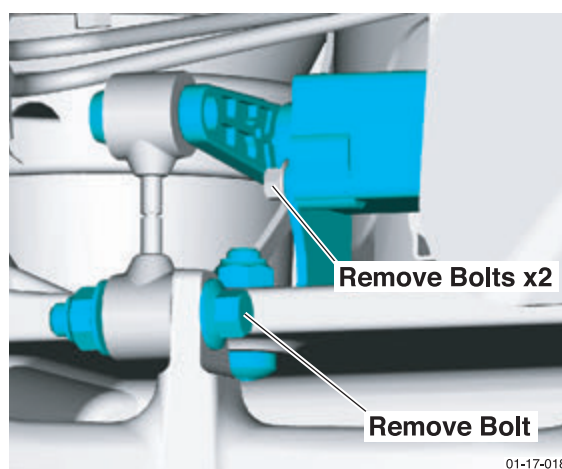
Maintenance

Front Level Sensor

Repair Operation Time (ROT)	
Item	Code
Front Level Sensor Renew	17.04.BB

Removal

1. Disconnect the vehicle ride height sensor from the lower suspension arm.
2. Remove the ride height sensor from the subframe.

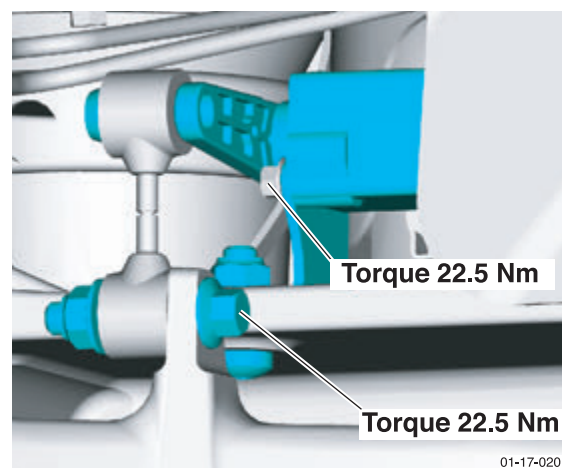


Installation

1. Install the vehicle ride height sensor (LH side).

Torque to:

- (M8 (subframe)) **22.5 Nm.**
- (M8 (lower arm)) **22.5 Nm.**

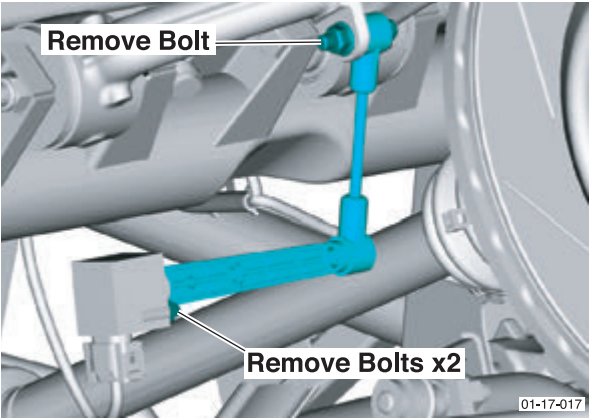


Rear Level Sensor

Repair Operation Time (ROT)	
Item	Code
Rear Level Sensor Renew	17.04.CB

Removal

1. Disconnect the vehicle ride height sensor from the upper suspension arm.
2. Remove the ride height sensor from the subframe.



Installation

1. Install the vehicle ride height sensor (LH side).
Torque to:
 - (M5 (subframe)) 5-6 Nm.
 - (M8 (upper arm)) 22.5 Nm.

