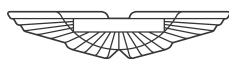


Body System (01.00)

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Body System (01.00)

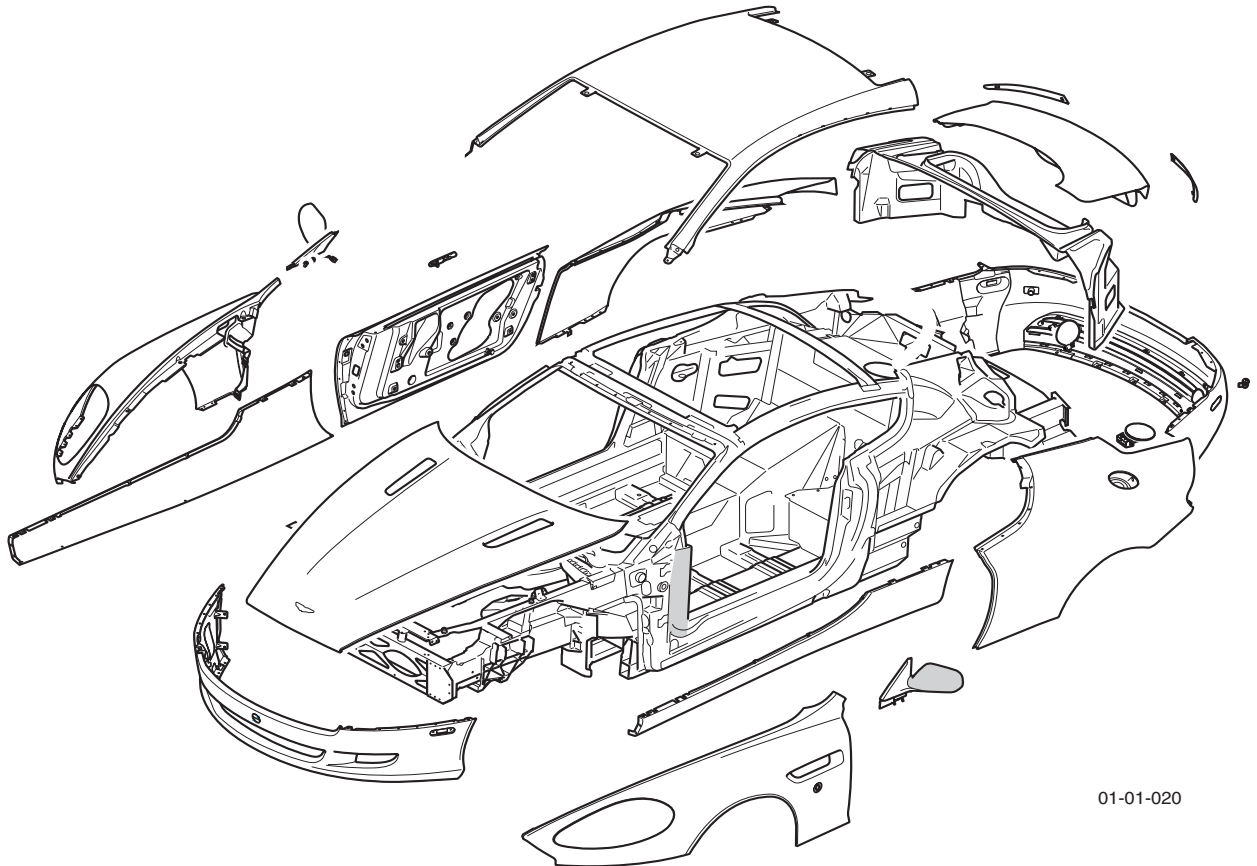
Body Structure (01.01)**Overview**

The all aluminium body underframe is bonded using an immensely strong hot-cured XD4600 red adhesive.

The rear quarter panels, roof and side mouldings are bonded to the structure using cold-cured 2810 MV adhesive. The curing cycle is improved by using a hot air impingement system.

The composite front wings are bolted to the structure.

At no time should the body structure be subjected to temperatures in excess of 120°C (248°F).



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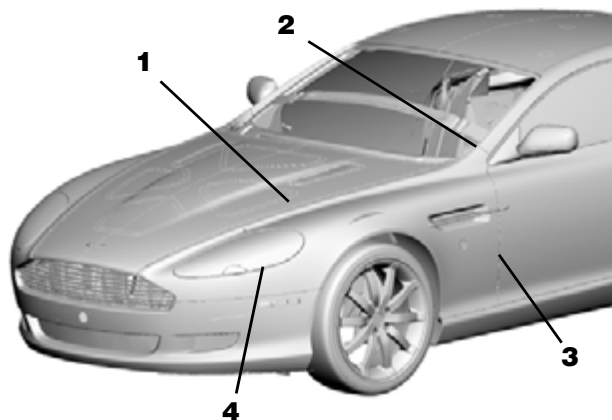
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Body System (01.00)

Front End (01.02)

Front Wings
Specifications

Wing Standard (mm)

Item	1	2	3	4
Nominal gap	3.5	2.0	3.75	3.0

Wing Standard (mm)

Item	1	2	3	4
Tolerance	±0.75	+0.5 / -0.0	± 0.75	±0.5
Flush	-0.0	0.0	0.0	-0.5
Tolerance	±1.5	+0.0 / -0.5	±1.5	±0.5
Taper	N/A			
Symmetry	N/A			

Torque Figures

Description	Nm
Wing Top	8
Wing Top Single nut	Tight with 'Threadlock'
Lower Rear	8
Slam panel	8
PCM Bracket	10
Bonnet Damper	25

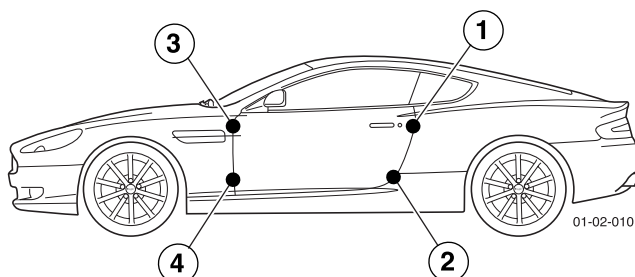


Body System (01.00)

Body Closures (01.03)

Specifications

Doors



Door Standard (mm)

Item	1	*2	3	4
Nominal gap	3.5	3.00	3.00	3.75
Tolerance	±0.75	±1.0	±1.0	± 0.75
Flush	0.0	-1.0	-1.0	0.0
Tolerance	±1.5 / 0.0	+0.0 / -1.0	±1.0	±1.5
Taper	N/A			
Symmetry	N/A			

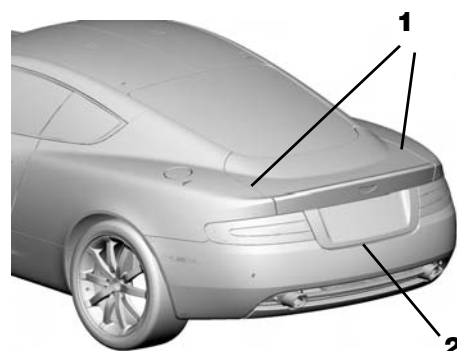
* Flushness blends to 0.0 at the rear quarter

* Gap blends to 3.5 at rear quarter

Torque Figures

Description	Nm.
Hinge to Door	47.5
Hinge to Body	36
Door Striker plate	

Tailgate



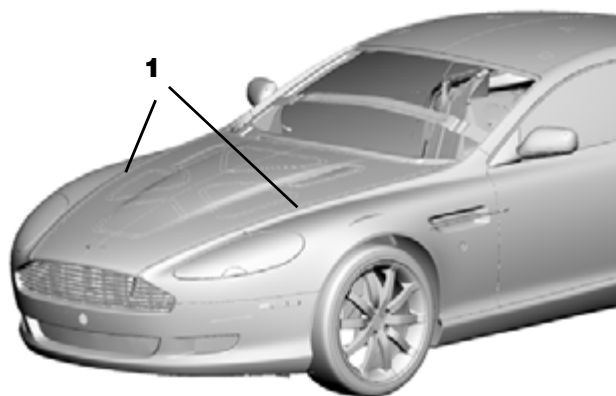
Tailgate Standard (mm)

Item	1	2
Nominal gap	3.5	3.5
Tolerance	±0.75	±1.0
Flush	-0.5	N/A
Tolerance	+0.5 / -1.0	N/A
Taper	1 mm Max. across the length	
Symmetry	1 mm Max. difference LH to RH	

Torque Figures

Description	Nm
Hinge to Body	25

Bonnet



Bonnet Standard (mm)

Item	1
Nominal gap	3.5
Tolerance	±0.75
Flush	-0.0
Tolerance	±1.5
Taper	N/A
Symmetry	N/A

Torque Figures

Description	Nm.
Hinge to Body	25



Maintenance

Tailgate Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Tailgate Assembly-Renew	01.03.GG

Removal

1. Remove RH quarter upper trim panel (see Workshop Manual Procedure 01.05.CX Moulding Assembly - Quarter Trim Upper - RH - Renew).
2. Remove LH quarter upper trim panel.
3. Remove rear header trim panel.
4. Disconnect LH and RH tailgate harnesses in cabin
5. Remove LH and RH harness grommets from body shell
6. Remove tailgate trim panel (see Workshop Manual Procedure 01.05.EF Trim - Tailgate Lid Assembly - Renew).
7. Disconnect one multiplug and remove securing bolts (x3) for GPS aerial and place to one side.
8. Disconnect multiplug and remove securing nuts (x2) for central high stop lamp assembly, place to one side.
9. Disconnect multiplug and remove securing nuts (x2) for tailgate release switch, place to one side.
10. Remove tailgate buffer stops and place to one side.
11. Provide collision protection between tailgate corners and bodywork.
12. With assistance remove bolts (x4) from hinges and place tailgate to one side.

Installation

1. With assistance align tailgate to hinges and install bolts (x4), nip but do not tighten.
2. Adjust alignment of tailgate and tighten hinge bolts.
3. Install tailgate buffers and adjust height as necessary
4. Install tailgate release switch and secure with nuts (x2), connect multiplug.
5. Install central high level stop lamp assembly, secure with nuts (x2) and connect multiplug.

Hood Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Tailgate Assembly-Renew	01.03.AB

Removal

1. Open hood.
2. Disconnect windscreen wash pipe.
3. Remove ball studs from hood.
4. Remove buffers from hood.
5. Remove hood sound insulation.
6. Loosen hood hinge bolts (4).
7. Disconnect gas struts and remove hinge bolts.
8. Remove hood.

Installation

1. Position hood to hinge and install bolts (x4).
2. Install hood ball studs.
3. Install Buffers to hood.
4. Install sound deadening.
5. Align hood to aperture.
6. Raise hood. Nip up one hinge bolt either side.
7. Lower hood and check alignment.
8. Raise hood and tighten hinge bolts (x4) and tighten.
9. Install gas struts.
10. Close bonnet to check engagement of latch assembly, adjust if necessary.
11. Close hood and check operation of hood release lever.

Body System (01.00)

Interior Trim (01.05)

This section covers removal and installation of the interior moldings and trim panels. In many instances, one component overlaps another component. If this condition is found, it will be necessary to loosen or remove the overlapping component before removal, to prevent damage to either component.

Maintenance

Rear Centre Console-Renew

Repair Operation Time (ROT)	
Item	Code
Rear Centre Console-Renew	01.04.BB

Removal

1. Remove storage compartment door.
2. Remove bolt and screws (x5) from storage compartment support rail.
3. Release and remove centre arm rest (see Fig. 1).



Fig. 1

4. Remove nuts (x3), screws (x4) from panel assembly rear console (see Fig. 2).



Fig. 2

Installation

1. Install panel and tighten nuts (x3) and screws (x4).
2. Install centre arm rest.
3. Install support rail and tighten screws (x5) and bolt.

4. Install storage compartment door.

RH/LH Front Sill Plate-Renew

Repair Operation Time (ROT)		
Item		Code
Front Sill Plate-Renew	RH	01.05.AJ
Front Sill Plate-Renew	LH	01.05.AK

Removal

1. Remove screws (x2) name plate to front plate.
2. Remove bolts (x6) front plate to sill.
3. Remove front plate

Installation

1. Position front plate and install bolts (x6).
2. Install front sill name plate.

RH/LH Front Sill Name Plate-Renew

Repair Operation Time (ROT)		
Item		Code
Front Sill Name Plate-Renew	RH	01.05.AL
Front Sill Name Plate-Renew	LH	01.05.AM

Removal

1. Remove screws (x2) name plate to front plate.
2. Remove name plate.

Installation

1. Install name plate to front plate.

Header Panel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Header Panel Assembly-Renew	01.05.BB

Removal

1. Remove grill from front header courtesy light console.

2. Remove screw securing courtesy light console to header (see Fig. 1).

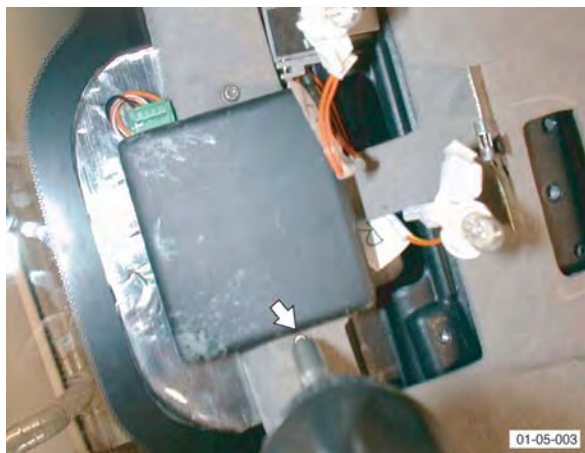


Fig. 1

3. Remove courtesy light console from header.
4. Remove sun visor Allen screws (x2 (see Fig. 2)).



Fig. 2

5. Remove sunvisor (see Fig. 3).



Fig. 3

Installation

1. Position sun visor and install screws (x2).
2. Install courtesy light console.
3. Install grille.

RH/LH Upper Rear Pillar Panel Assembly-Renew

Repair Operation Time (ROT)		
Item		Code
Upper Rear Pillar Panel Assembly-Renew	RH	01.05.BF
Upper Rear Pillar Panel Assembly-Renew	LH	01.05.BG

Removal

1. Remove rear header.
2. Remove nut (x1) rear pillar panel assembly to body.
3. Release panel from fir tree clip (x1).
4. Disconnect multiplug (x1) light assembly and remove panel.

Installation

1. Connect multiplug, position panel and secure with fir tree clip.
2. Install nut (x1) panel to body.
3. Install rear header.

RH Sun Visor-Renew

Repair Operation Time (ROT)		
Item		Code
Sun Visor-Renew	RH	01.05.BH

Removal

1. Remove front header trim panel (see Workshop Manual procedure 01.05.BB Panel Assembly - Header - Renew).
2. Remove rear header trim panel screws (x2) and fir trees (x3).
3. Remove headliner rear retainers.
4. Remove headliner.

Installation

1. Position headliner and secure with rear retainers.
2. Install rear header trim panel.
3. Install front header trim panel (see Workshop Manual procedure 01.05.BB Panel Assembly - Header - Renew).

LH Sun Visor-Renew

Repair Operation Time (ROT)		
Item		Code
Sun Visor-Renew	LH	01.05.BJ

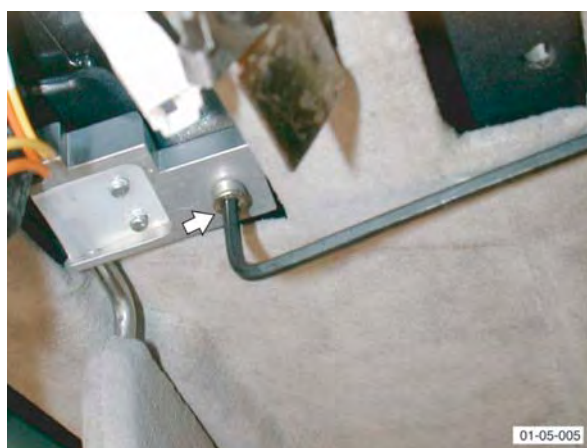
Removal

1. Remove grill from front header courtesy light console.

2. Remove screw securing courtesy light console to header (see Fig. 1).

**Fig. 1**

3. Remove courtesy light console from header.
4. Remove sun visor allen screws (x2) (see Fig. 2).

**Fig. 2**

5. Remove sunvisor.

Installation

1. Position sun visor and install screws (x2).
2. Install courtesy light console.
3. Install grille.

Rear Header Panel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Rear Header Panel Assembly-Renew	01.05.BK

Removal

1. Remove LH moulding assembly quarter trim upper (see Workshop Manual procedure 01.05.CY Moulding Assembly - Quarter Trim Upper - LH - Renew).
2. Remove RH moulding assembly quarter trim upper (see Workshop Manual procedure 01.05.CX Moulding Assembly - Quarter Trim Upper - RH - Renew).
3. Remove rear header panel assembly.

Installation

1. Install rear header panel assembly.
2. Install RH moulding assembly quarter trim upper (see Workshop Manual procedure 01.05.CX Moulding Assembly - Quarter Trim Upper - RH - Renew).
3. Install LH moulding assembly quarter trim upper (see Workshop Manual procedure 01.05.CY Moulding Assembly - Quarter Trim Upper - LH - Renew).

Door Trimboard Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Door Trimboard Assembly-Renew	01.05.CA

Removal

1. Lower door glass fully.
2. Disconnect vehicle battery.
3. Release door handle (bolts x2).
4. Remove door handle trim plate and disconnect door catch inner release cable and remove bolts (x2) from outer retaining plate.
5. Remove screw (x1) securing trim panel to top front of door frame.
6. Remove door trim panel bolts (x5).
7. Lift trim out and up to release trim from door frame and disconnect multiplugs (x2).

Installation

1. Position door trim panel and connect harness multiplugs.
2. Place trim over top of retaining clips and pull out and down to fit panel.
3. Install the door trim panel screws (x5).
4. Install screw (x1) trim panel to top front of door frame.
5. Connect release cable and position door handle trim plate.
6. Install door handle (Bolts x2).
7. Connect vehicle battery.

Door Trimboard Assembly-Remove for Access/Refit

Repair Operation Time (ROT)	
Item	Code
Door Trimboard Assembly-Remove/Refit	01.05.CB

Removal

1. Lower door glass fully.
2. Disconnect vehicle battery.
3. Release door handle (bolts x2).
4. Remove door handle trim plate and disconnect door catch inner release cable and remove bolts (x2) from outer retaining plate.
5. Remove screw (x1) securing trim panel to top front of door frame.



- Remove door trim panel bolts (x5).
- Lift trim out and up to release trim from door frame and disconnect multiplugs (x2).

Installation

- Position door trim panel and connect harness multiplugs.
- Place trim over top of retaining clips and pull out and down to fit panel.
- Install the door trim panel screws (x5).
- Install screw (x1) trim panel to top front of door frame.
- Connect release cable and position door handle trim plate.
- Install door handle (Bolts x2).
- Connect vehicle battery.

RH/LH Door Trim Upper Veneer Panel-Renew

Repair Operation Time (ROT)		
Item		Code
Door Trim Upper Veneer Panel-Renew	RH	01.05.CC
Door Trim Upper Veneer Panel-Renew	LH	01.05.CD

Removal

- Remove door trimboard assembly (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).
- Remove screws (x9), release clip securing trim upper veneer panel to trimboard, and remove trim panel.

Installation

- Install trim upper veneer panel, install clip, install and tighten screws (x9).
- Install door trimboard assembly ((see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).

LH Door Trim Upper Panel-Renew

Repair Operation Time (ROT)		
Item		Code
Door Trim Upper Panel-Renew	RH	01.05.CE
Door Trim Upper Panel-Renew	LH	01.05.CF

Removal

- Remove door trimboard assembly (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit)
- Remove upper veneer door trim panel securing screws (x9) and clip (x1).
- Remove speaker grille securing screws (x2) and unclip (x3) from panel.
- Remove upper door trim panel securing screw (x1) and drill out 7 pop-rivets

Installation

- Install upper door trim panel, securing screw (x1) and pop-rivets (x7).

- Install speaker grille, clips (x3) and screws (x2).
- Install upper veneer door trim panel, screws (x9) and clip (x1).
- Install door trimboard assembly (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).

RH/LH Interior Door Assembly Handle and Armrest-Renew

Repair Operation Time (ROT)		
Item		Code
Interior Door Handle and Armrest-Renew	RH	01.05.CG
Interior Door Handle and Armrest-Renew	LH	01.05.CH

Removal

- Open door.
- Remove bolts (x2) securing interior door handle and armrest.
- Disconnect latch inner and outer cable from handle, remove handle/armrest assembly.

Installation

- Connect latch inner and outer cable to handle mechanism.
- Install handle/armrest assembly to trimboard, install and tighten bolts (x2).

RH/LH Door Pocket Assembly-Renew

Repair Operation Time (ROT)		
Item		Code
Door Pocket Assembly-Renew	RH	01.05.CJ
Door Pocket Assembly-Renew	LH	01.05.CK

Removal

- Remove door trimboard assembly (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).
- Remove door ajar puddle lamp.
- Remove nuts (x10), securing door pocket to trimboard, remove door pocket.

Installation

- Install door pocket, install and tighten nuts (x10).
- Install door ajar puddle lamp.
- Install door trimboard assembly (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).

Lower Panel Assembly Quarter Trim-Renew

Repair Operation Time (ROT)		
Item		Code
Lower Panel Assembly Quarter Trim-Renew	RH	01.05.CR

Repair Operation Time (ROT)		
Item		Code
Lower Panel Assembly Quarter Trim-Renew	LH	01.05.CS

Removal

1. Remove RH quarter trim middle panel (see Workshop Manual procedure 01.05.CT Panel Assembly - Quarter Trim Middle Section - RH - Renew).
2. Remove nuts (x3) from lower to middle trim panel and remove lower trim panel.

Installation

1. Install lower trim to middle trim panel and tighten nuts (x3).
2. Install RH quarter trim middle panel (see Workshop Manual procedure 01.05.CT Panel Assembly - Quarter Trim Middle Section - RH - Renew).

RH/LH Middle Section Quarter Trim Panel Assembly-Renew

Repair Operation Time (ROT)		
Item		Code
Middle Section Quarter Trim Panel Assembly-Renew	RH	01.05.CT
Middle Section Quarter Trim Panel Assembly-Renew	LH	01.05.CU

Removal

1. Remove screw securing RH/LH quarter trim middle section to rear bulkhead cover.
2. Release and remove trim panel fir tree clips (x4).
3. Remove fir tree clips (x4) and spring clip from trim panel.

Installation

1. Install fir tree clips (x4) and spring clip in trim panel.
2. Install trim panel, secure with clips and tighten screw.

RH/LH Upper Quarter Moulding Trim-Renew

Repair Operation Time (ROT)		
Item		Code
Upper Quarter Moulding Trim-Renew	RH	01.05.CX
Upper Quarter Moulding Trim-Renew	LH	01.05.CY

Removal

1. Remove RH quarter trim middle panel (see Workshop Manual procedure 01.05.CT/01.05.CU Panel Assembly - Quarter Trim Middle Section - RH/LH - Renew).
2. Remove bolts (x2) and screw (x1) securing upper quarter trim to body.
3. Feed seatbelt through trim panel aperture and remove panel.
4. Disconnect speaker multiplug.
5. Remove nuts securing speaker to trim panel (x3).

Installation

1. Install speaker (nuts x3).
2. Connect speaker multiplug.
3. Feed seat belt harness through panel and secure panel to body.
4. Install RH quarter trim middle panel (see Workshop Manual procedure 01.05.CT/01.05.CU Panel Assembly - Quarter Trim Middle Section - RH/LH - Renew).

RH/LH Rear Heel Board Assembly-Renew

Repair Operation Time (ROT)		
Item		Code
Rear Heel Board Assembly-Renew	RH	01.05.EC
Rear Heel Board Assembly-Renew	LH	01.05.ED

Removal

1. Power drivers seat fully forward.
2. Remove stowage compartment door.
3. Release rear carpet studs (x2), move carpet aside.
4. Remove screws (x2), RH rear heel board to support rail.
5. Remove nuts (x2), RH rear heel board to body, remove heel board.

Installation

1. Install RH rear heel board, install and tighten nuts (x2) and screws (x2).
2. Position rear carpet, secure with studs (x2).
3. Install stowage compartment door.
4. Reposition drivers seat.

Tailgate Lid Trim Assembly-Renew

Repair Operation Time (ROT)		
Item		Code
Tailgate Lid Trim Assembly-Renew		01.05.EF

Removal

1. Disconnect emergency release handle from cable.
2. Remove closing strap handle securing bolt.
3. Remove fir tree trim pins (x16).
4. Place panel to one side.

Installation

1. Install panel and fit fir tree trim pins (x16).
2. Install closing strap.
3. Connect emergency release cable.

RH/LH Side Luggage Compartment Carpet Assembly-Renew

Repair Operation Time (ROT)		
Item		Code
Side Luggage Compartment Carpet Assembly-Renew	RH	01.05.FB
Side Luggage Compartment Carpet Assembly-Renew	LH	01.05.FC

Removal



1. Release and remove rear luggage compartment floor carpet.
2. Remove front floor carpet retainers (x6).
3. Remove luggage compartment front floor carpet.
4. Remove tailgate scuff plate (see Workshop Manual procedure 01.05.FL Plate - Tailgate Scuff - Renew).
5. Partially remove tailgate aperture seal.
6. Release and remove RH/LH side luggage compartment carpet.

Installation

1. Install and secure RH/LH side luggage compartment carpet.
2. Install aperture seal.
3. Install tailgate scuff plate (see Workshop Manual procedure 01.05.FL Plate - Tailgate Scuff - Renew).
4. Install luggage compartment front floor carpet and secure with carpet retainers.
5. Install luggage compartment rear floor carpet.

Luggage Compartment Front Carpet Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Luggage Compartment Front Carpet Assembly-Renew	01.05.FE

Removal

1. Release and remove luggage compartment rear floor carpet.
2. Remove carpet retainers (x6).
3. Remove luggage compartment front floor carpet.

Installation

1. Install luggage compartment front floor carpet and secure with carpet retainers.
2. Install luggage compartment rear floor carpet.

Luggage Compartment Floor Rear Carpet Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Luggage Compartment Front Carpet Assembly-Renew	01.05.FF

Removal

1. Release and remove rear luggage compartment floor carpet.

Installation

1. Install rear luggage compartment floor carpet

Tailgate Scuff Plate-Renew

Repair Operation Time (ROT)	
Item	Code
Tailgate Scuff Plate-Renew	01.05.FL

Removal

1. Remove screws (x2) securing tailgate striker and remove striker.
2. Remove screws securing tailgate scuff plate.

Installation

1. Position tailgate scuff plate and install screws (x3)
2. Install tailgate striker.
3. Adjust striker as necessary.

LH Side front Carpet Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Side Front Carpet Assembly-Renew	LH 01.05.FM

Removal

1. Remove LH side rear luggage compartment carpet (see Workshop Manual procedure 01.05.FC Carpet Assembly - Luggage Compartment - Side Rear - LH - Renew).
2. Remove front floor carpet retainers and carpet.
3. Remove LH front luggage compartment carpet.

Installation

1. Install LH front luggage compartment carpet.
2. Install front floor carpet and secure with carpet retainers (x6).
3. Install LH side rear luggage compartment carpet (see Workshop Manual procedure 01.05.FC Carpet Assembly - Luggage Compartment - Side Rear - LH - Renew).

Centre Stack Assembly-Remove for Access/Refit

Repair Operation Time (ROT)	
Item	Code
Centre Stack Assembly-Remove/Refit	15.01.CB

Removal

1. Remove panel assembly - console (see Workshop Manual procedure 01.12.DB Panel Assembly Console - Renew).
2. Remove bezel assembly instrument panel (see Workshop Manual procedure 01.12.AV Bezel Assembly - Instrument Panel - Renew).

3. Remove screws (x4) that secure centre stack assembly to IP (see Fig. 1).



Fig. 1

4. Release centre stack assembly and disconnect multiplugs (x12).

Installation

1. Position centre stack assembly and install multiplugs (x12).
2. Install and torque tighten screws (x4).
3. Install bezel assembly instrument panel (see Workshop Manual procedure 01.12.AV Bezel Assembly - Instrument Panel - Renew).
4. Install panel assembly - console (see Workshop Manual procedure 01.12.DB Panel Assembly Console - Renew).



Body System (01.00)

Exterior Trim (01.08)**Maintenance****Radiator Grille-Renew**

Repair Operation Time (ROT)		
Item		Code
Radiator Grille-Renew		01.08.AA

Removal

1. Remove number plate plinth (see Workshop Manual procedure 01.19.BD Licence Plate - Plinth Assembly - Front - Renew).
2. Remove number plate plinth securing plate.
3. Remove radiator grill screws (x6) and nuts (x2).
4. Remove grill assembly.

Installation

1. Position radiator grill and install screws (x6) and nuts (x2).
2. Install number plate plinth securing plate.
3. Install number plate plinth (see Workshop Manual procedure 01.19.BD Licence Plate - Plinth Assembly - Front - Renew).

RH/LH Hood Mesh Assembly-Renew

Repair Operation Time (ROT)		
Item		Code
Hood Mesh Assembly-Renew	RH	01.08.BA
Hood Mesh Assembly-Renew	LH	01.08.BB

Removal

1. Release 4 trim clips securing sound deadening around mesh.
2. Remove nuts and washers (x6) mesh to hood.
3. Release and remove mesh.

Installation

1. Position mesh to hood and install nuts and washers.
2. Secure sound deadening around mesh.

RH Side Strake Mesh-Renew

Repair Operation Time (ROT)		
Item		Code
Side Strake Mesh-Renew	RH	01.08.CE

Removal

1. Remove engine control module.
2. Remove nuts (x3) securing mesh to side strake.
3. Remove mesh.

Installation

1. Position mesh to side strake and install nuts (x3).
1. Install engine control module.

LH Side Strake Mesh-Renew

Repair Operation Time (ROT)		
Item		Code
Side Strake Mesh-Renew	LH	01.08.CF

Removal

1. Remove nuts (x3) mesh to side strake.
2. Remove mesh.

Installation

1. Position mesh to side strake and install nuts (x3).

RH Wing Side Strake-Renew

Repair Operation Time (ROT)		
Item		Code
Wing Side Strake-Renew	RH	01.08.CG

Removal

1. Remove engine control module (see Workshop Manual procedure 03.14.BB Engine Control Module - RH Renew).
2. Remove nuts (x3) mesh to side strake.
3. Remove mesh.
4. Remove screw inside 'A' post securing side strake to body.
5. Remove nut side strake to wheel arch.
6. Remove side strake.

Installation

1. Install side strake, nut and screw.
2. Position mesh to side strake and install nuts (x3).
3. Install engine control module (see Workshop Manual procedure 03.14.BB Engine Control Module - RH Renew).

LH Wing Side Strake-Renew

Repair Operation Time (ROT)		
Item		Code
Wing Side Strake-Renew	LH	01.08.CH

Removal

1. Remove LH front wheel arch liner (see Workshop Manual procedure 01.02.FB Wheel Arch Liner - Front - LH - Renew).
2. Remove nuts (x3) mesh to side strake.
3. Remove mesh.
4. Remove screw inside 'A' post side strake to body.
5. Remove nut side strake to wheel arch.
6. Remove side strake.

Installation

1. Install side strake, nut and screw.
2. Position mesh to side strake and install nuts (x3).



3. Install LH front wheel arch liner (see Workshop Manual procedure 01.02.FB Wheel Arch Liner - Front - LH - Renew).

Front Undertray-Renew

Repair Operation Time (ROT)	
Item	Code
Front Undertray-Renew	01.02.NB

Removal

1. Raise vehicle on ramp.
2. Remove screws (x2), Torx screws (x12), front undertray to body.
3. With assistance, remove front undertray.

Installation

1. With assistance, install undertray, install and tighten Torx screws (x12) to (19-26 Nm) and screws (x2) to (8-10 Nm)
2. Lower vehicle on ramp.

Rear Undertray-Renew

Repair Operation Time (ROT)	
Item	Code
Rear Undertray-Renew	01.02.PB

Removal

1. Raise vehicle on ramp.
2. Remove Torx screws (x10), rear undertray to subframe.
3. Remove rear undertray.

Installation

1. Install rear undertray, install and tighten Torx screws (x10) to (8-10 Nm).
2. Lower vehicle on ramp.

Undertray Vehicle Set-Renew

Repair Operation Time (ROT)	
Item	Code
Undertray Vehicle Set-Renew	01.02.PD

Removal

1. Raise vehicle on ramp.
2. Remove Torx screws (x12), screws (x2), front undertray to subframe.
3. With assistance, remove front undertray.
4. Remove Torx screws (x10), rear undertray to subframe.
5. Remove rear undertray.

Installation

1. With assistance, install front undertray, install and tighten Torx screws (x12), screws (x2).
2. Install rear undertray, install and tighten Torx screws (x10).
3. Lower vehicle on ramp

RH/LH Front Wheel Arch Liner-Renew

Repair Operation Time (ROT)		
Item		Code
Wheel Arch Liner-Renew	RH	01.02.GB
Wheel Arch Liner-Renew	LH	01.02.FB

Removal

4. Raise vehicle on ramp.
5. Remove road wheel(s).
6. Remove screws (x23), wheel arch liner to body.
7. Release and remove wheel arch liner.
8. Remove inner pad from liner.

Installation

1. Install inner pad to wheel arch liner.
2. Install wheel arch liner, fit and tighten screws (x23).
3. Install road wheel(s).
4. Lower vehicle on ramp.

RH/LH Rear Wheel Arch Liner-Renew

Repair Operation Time (ROT)		
Item		Code
Rear Wheel Arch Liner-Renew	RH	01.02.HB
Rear Wheel Arch Liner-Renew	LH	01.02.JB

Removal

1. Raise vehicle on ramp.
2. Remove road wheel(s).
3. Release vent pipe clips (x2) - Right-hand side only.
4. Remove screws (11), wheel arch liner to body.
5. Release and remove wheel arch liner, remove inner pad from liner.

Installation

1. Install inner pad to wheel arch liner.
2. Install wheel arch liner, fit and tighten screws (x11).
3. Install vent pipe to liner, clips (x2) - Right-hand side only.
4. Install road wheel(s).
5. Lower vehicle on ramp.

Body System (01.00)

Mirrors (01.09)

Specifications

Torque Figures

Description	Nm
Mirror Mounting	20-25

Maintenance

RH/LH Door Mirror Assembly-Renew

Repair Operation Time (ROT)		
Item		Code
Door Mirror Assembly-Renew	RH	01.08.GC
Door Mirror Assembly-Renew	LH	01.08.GD

Removal

1. Remove door trimboard (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).
2. Lift rear of fixed window, remove rubber surround at top and pull out window.
3. Remove the door mirror rubber cheater panel.
4. Disconnect multiplug and release harness from fir tree clips (x2) and self adhesive clip.
5. Remove Torx bolts (x3) and screw from glass channel, remove mirror assembly.

Installation

1. Position mirror, install and torque tighten Torx bolts (x3) and screw (glass channel).
2. Connect multiplug and secure harness fir tree clips (x2) and self adhesive clip.
3. Install rubber mirror cheater panel and insert rubber guttering.
4. Refit fixed window, ensure rubber surround is correctly installed.
5. Install door trimboard (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).

Door Mirror Glass and Pad Assembly-Renew

Repair Operation Time (ROT)		
Item		Code
Door Mirror Glass and Pad Assembly-Renew	RH	01.08.GE
Door Mirror Glass and Pad Assembly-Renew	LH	01.08.GF

Removal

1. Switch ignition on, motor mirror fully inwards, switch off ignition.
2. Support outer edge of mirror glass, using a suitable flat blade between inboard glass edge and casing, lever glass outwards to release from outboard clip.

3. Turn on ignition and drive mirror to maximum away from door, turn off ignition and disconnect lucar connectors (x2).

Installation

1. Connect lucar connectors to mirror glass (x2).
2. Align mirror glass inboard clip with pad and fit white tags into their appropriate channels.
3. Press outboard edge of mirror glass until it can be heard to clip into place.



Body System (01.00)

Seating (01.10)

Description

The front seats are installed with the following features:

- Integral side airbags
- Head restraints
- Safety belt reel pretensioner
- Electrically adjustable seat positioning and lumbar support
- Heated seat (optional)

Heated Seats

The heated seat system comprises:

- Heated seat switches
- Backrest heater element
- Cushion heater element and thermostat

The heated seat function permits the electrical heating of the seat back and cushion on the driver and front passenger seats. The heating system of each seat is selected by separate switches located on the inside of each seat base.

Once the heated seat function has been activated, it will operate until one of the following conditions have been satisfied:

- A fixed period of time has expired (10 minutes)
- If the engine is not running and the ignition key is removed
- A malfunction is detected by the heated seat module

Confirmation that the heated seat function is active is indicated by the illumination of an amber light on the switch.

Specifications

Torque Figures	
Description	Nm
Seat mountings	20-25
Seatbelt	30-40

Maintenance

RH/LH Front Seat-Renew

Repair Operation Time (ROT)		
Item	Code	
Front Seat-Renew	RH	01.10.AA
Front Seat-Renew	LH	01.10.AB

Removal

1. Power seat fully forward.
2. Remove bolts (x2), securing rear of seat to seat rails.
3. Power seat fully rearwards.
4. Remove bolt securing seat belt to seat frame.
5. Remove bolts (x2), securing front of seat to seat rails.
6. Tip the seat forwards and disconnect multiplugs (x4)
7. With assistance, remove seat assembly.

Installation

1. With assistance, Install seat in the vehicle.
2. Position seat belt to seat frame, install and torque tighten bolt.
3. Tip the seat forwards and connect multiplugs (x4).
4. Position seat onto seat rails.
5. Install front bolts (x2). Power seat forward and install rear bolts (x2). Torque tighten bolts (x4).

To power the drivers seat the ignition switch must be in the 'II' position



Body System (01.00)

Glass, Frame and Mechanism (01.11)**Description**

Power to the door window regulator motor is available when the ignition switch is at position '0' and is supplied, through a thermal cut-out, to the left and right window switches. The switches are double pole earth so that the current through a window regulator motor may be switched in either direction to raise or lower the glass.

Frameless doors

To avoid damaging the body seals during door opening, the door glass must be lowered before the door can be opened. This function is controlled by the door modules.

The door module senses the rotation of the latch claw as the door opens, the door module then drives the door window regulator motor briefly to lower the door glass until it clears the glass seals. After closing a door, the window regulator motor operates to raise the door glass to seat against the body seals.

Specifications

Torque Figures	
Description	Nm
Regulator mountings	9.0 (M6) 10-15 (M10)
Glass grip screws	5.0-6.0

Maintenance**Glass Regulator**

Repair Operation Time (ROT)	
Item	Code
Door Glass Motor	LH
	RH
Door Glass Regulator	LH
	RH

Removal

1. Remove trimboard assembly from door (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).
2. Remove switchpack securing screws (x4) from trimboard assembly.
3. Connect switchpack to door cable harness multiplug (x1).
4. With power on raise/lower glass to access glass clamping bolts (x2), on completion turn off power.
5. Remove clamping bolts (x2) and lift glass out of door.
6. Remove securing nuts (x4) for regulator mechanism.
7. Disconnect multiplug (x1) from regulator motor and remove regulator motor securing screws (x3).
8. Carefully remove regulator mechanism and regulator motor out of the large aperture.

Installation

1. Install regulator mechanism and motor and secure with nuts (x4) and screws (x3).
2. Connect multiplug (x1) to regulator motor.
3. Fit glass into door and engage the clamping brackets, install clamping bolts and partially tighten.
4. With power on raise glass to fully up and adjust alignment, lower fully and check alignment, repeat until alignment is correct, finally tighten clamping bolts (x2). Switch power off on completion.
5. Disconnect switchpack from harness and install in trimboard assembly with securing screws (x4).
6. Install trimboard assembly (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).

RH/LH Door Glass-Renew

Repair Operation Time (ROT)	
Item	Code
Door Glass-Renew	RH 01.11.BA
Door Glass-Renew	LH 01.11.BB

Removal

1. Open door.
2. Remove interior door handle securing bolts (x2).
3. Remove inner handle trim and disconnect door latch inner cable and remove securing bolts for the outer cable.
4. Set glass to position to access clamping bolts (x2) through apertures in the trim panel.
5. Hold glass firmly and lift out of door, place on protective material in a safe place.

Installation

1. Position glass with front edge into the channel and lower pushing into the clamps, position clamping bolts and lightly tighten.
2. With power on, raise glass fully up and adjust position, drop glass fully down and readjust, when aligned raise to access clamping bolts and tighten bolts to recommended torque. Repeat until aligned.
3. Reconnect door latch inner and outer cable, refit inner handle trim.
4. Install door handle.

Door Glass-Adjust/Reset

Repair Operation Time (ROT)	
Item	Code
Door Glass-Adjust/Reset	RH 01.11.BC
Door Glass-Adjust/Reset	LH 01.11.BD

1. Open door.
2. Remove interior door handle securing bolts (x2).



3. Remove inner handle trim and disconnect door latch inner cable and remove securing bolts for the outer cable.
4. Remove access plugs (x2), door trimboard.
5. Set glass to position to access clamping bolts (x2) through apertures in the trim panel.
6. Slightly loosen clampbolts (x2), raise glass and align, lower glass and check alignment. Raise and lower until correct alignment is achieved.
7. Position glass for access to clamp bolts and tighten bolts.
8. Reset upper glass limit.
9. Reset lower glass limit.

Installation

1. Reconnect door latch inner and outer cable, refit inner handle trim.
2. Install door handle.
3. Reset lower glass limit.
4. Install plugs (x2), door trimboard.

Front Windshield-Renew

Repair Operation Time (ROT)	
Item	Code
Front Windshield-Renew	01.11.AA

1. Open bonnet.
2. Remove wiper arm drivers side (see Workshop Manual procedure 01.16.AD Arm Assembly - Wiper - Driver - Renew).
3. Remove wiper arm passengers side (see Workshop Manual procedure 01.16.AE Arm Assembly - Wiper - Passenger - Renew).
4. Remove plate and disconnect multiplug (x1) windshield.
5. Close bonnet.
6. Remove interior mirror (see Workshop Manual procedure 01.08.FA Mirror Assembly - Rear Dipping - Renew).
7. Protect external body work and internal trim adjacent to glass.
8. Place suitable covers over trim and bodywork.
9. Make hole in sealer and assemble cutting knife.
10. Cut out windshield and remove.
11. Remove sealer from body and original screen if refitting.
12. Clean and polish windshield.
13. Apply etch primer around windshield aperture.
14. Assemble applicator.
15. Attach suction handles to windshield.
16. Apply sealer to glass.
17. With assistance, lift windshield into place and align in aperture. Lightly press glass to sealer.
18. Remove suction handles from windshield.
19. Remove all protective covers and tape.
20. Check screen for leaks.
21. Connect multiplug (x1) to windshield and install plate.

22. Install wiper arm passengers side (see Workshop Manual procedure 01.16.AE Arm Assembly - Wiper - Passenger - Renew).
23. Install wiper arm drivers side (see Workshop Manual procedure 01.16.AD Arm Assembly - Wiper - Driver - Renew).
24. Install interior mirror (see Workshop Manual procedure 01.08.FA Mirror Assembly - Rear Dipping - Renew).

Rear Windshield-Renew

Repair Operation Time (ROT)	
Item	Code
Rear Windshield-Renew	01.11.BE

1. Remove tailgate trim (see Workshop Manual procedure 01.05.EF Trim - Tailgate Lid Assembly - Renew).
2. Disconnect lucar connectors (x2) rear windshield.
3. Protect external bodywork and internal trim adjacent to glass.
4. Place suitable covers over trim and bodywork.
5. Make hole in sealer and assemble cutting knife.
6. Cut out rear windshield and remove.
7. Remove sealer from body and original windshield if refitting.
8. Clean and polish rear windshield.
9. Apply etch primer around rear windshield aperture.
10. Attach suction handles to rear windshield.
11. Assemble applicator.
12. Apply sealer to rear windshield.
13. With assistance lift rear windshield into place and align in aperture. Lightly press glass to sealer.
14. Remove suction handles from rear windshield.
15. Remove all protective covers and tape.
16. Check rear windshield for leaks.
17. Connect lucar connectors (x2) rear windshield.
18. Install tailgate trim (see Workshop Manual procedure 01.05.EF Trim - Tailgate Lid Assembly - Renew).

Body System (01.00)

Instrument Panel (IP) (01.12)



Specifications

Torque Figures

Description	Nm
IP Mountings	22.5
Glue pot bolts	8
Blower motor to bulkhead	10-14

Maintenance

Instrument Panel-Renew

Repair Operation Time (ROT)	
Item	Code
Instrument Panel-Renew	01.12.AA

Removal

1. Disconnect vehicle battery.
2. Drain cooling system (see Workshop Procedure 03.03.AD Coolant - Drain & Refill).
3. Evacuate air conditioning system (see Workshop Procedure 12.03.FA Tank - Receiver Drier - Renew).
4. Remove RH door (see Workshop Procedure 01.03.EA Door Assembly - RH - Remove for Access & Refit).

5. Remove tread plate badges - screws x2 (see Fig.1).



Fig. 1

6. Remove screws (x12) 6 each side and remove LH and RH side tread plates.
7. Release door seal from door aperture (see Fig. 2).



Fig. 2

8. Remove screw/release fir tree securing door seal plate to 'A' post (see Fig. 3 and Fig. 4).



Fig. 3



Fig. 5

13. Remove trim finishers (x4) and screws (x4) (see Fig. 5).
14. Remove LH and RH 'A' post cant rail trim panels (see Fig. 6).



Fig. 4



Fig. 6

9. Remove LH and RH A post trim panels.
10. Disconnect multiplugs (x5) from instrument panel RH side.
11. Disconnect multiplugs (x6) from instrument panel LH side.
12. Release both door seals from body.

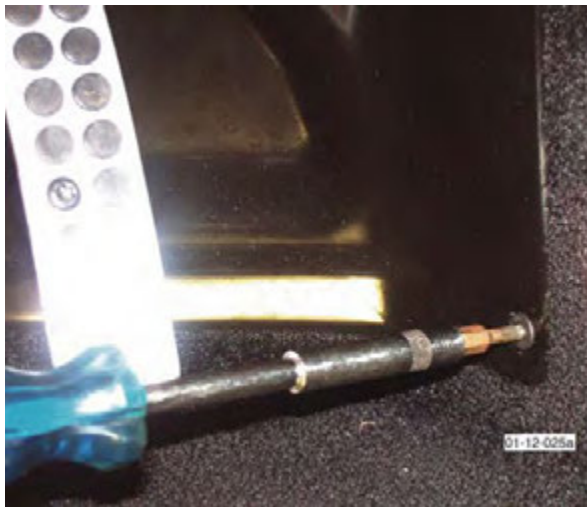
15. Remove rear centre console (see Workshop Manual XREF: 266 Centre Console Rear Renew).
16. Disconnect multiplugs (x8) and remove centre column switch panel (see Fig. 7 and Fig. 8).



Fig. 7

**Fig. 8**

17. Using special tool, release selector cable ball joints from gear lever mechanism.
18. Remove screws (x6) and remove gear lever mechanism.
19. Remove Allen bolts (x4) from securing carpet retaining plate to bulkhead drivers side (see Fig. 9).

**Fig. 9**

20. Pull back footwell carpets and remove bolts (x2) that secure instrument panel to tunnel (see Fig. 10).

**Fig. 10**

21. Remove bolt securing heater fan to bulkhead (see Fig. 11).

**Fig. 11**

22. Remove steering wheel (see Workshop Manual 11.06.AB Steering Wheel Renew).
23. Remove screws (x7) from steering column upper and lower shrouds (see Fig. 12).

**Fig. 12**

24. Remove lower and upper column shrouds (see Fig. 13). 29. Remove instrument panel upper air vents x 2 (see Fig. 15).



Fig. 13



Fig. 15

25. Release and remove drivers side lower instrument panel clips (x7) and disconnect air temperature pipe (see Fig. 14). 30. Remove screws from instrument panel to bulkhead (x4). 31. Remove bolts securing instrument panel to both 'A' posts (x6). 32. With assistance, position tool (501-F116) to instrument panel (see Fig. 16).



Fig. 14

26. Pull back steering column bulkhead gaiter.
27. Remove and discard pinch bolt from upper column to intermediate shaft.
28. Disconnect multiplugs (x14) from instrument panel to main body harness.



Fig. 16

33. Attach and tighten brackets (x2) to instrument panel.

34. Manoeuvre and remove instrument panel sufficient to gain access to heater hose (see Fig. 17).

**Fig. 17**

35. Position container to collect coolant.
 36. Release clip and disconnect hose from heater unit.
 37. Manoeuvre and remove instrument panel from vehicle (see Fig. 18).

**Fig. 18**

38. Remove container.

Installation

1. With assistance, manoeuvre instrument panel into vehicle.
2. Connect hose to heater and secure with clip.
3. With assistance, manoeuvre instrument panel into position aligning upper column to intermediate shaft.
4. Install new upper column pinch bolt (do not torque at this stage).
5. Install bolts (x6) through instrument panel to both 'A' posts (do not torque at this stage).
6. Install screws (x4) through instrument panel to bulkhead (do not torque at this stage).
7. Ensure instrument panel is correctly aligned and tighten screws (x4) and bolts (x6) to correct torque.
8. Loosen and release attachments from instrument panel and with assistance, remove tool (501-F116) from vehicle.
9. Tighten upper column pinch bolt to correct torque.
10. Install gaiter to bulkhead.
11. Connect multiplugs (x14) from instrument panel to main body harness.
12. Apply adhesive and install instrument panel upper air vents and secure in clips.
13. Position drivers side lower instrument panel and connect air temperature pipe.
14. Install panel in clips (x7).
15. Install steering column upper and lower shrouds and install and tighten screws (x7).
16. Install steering wheel (see Workshop Manual 11.06.AB Steering Wheel Renew).
17. Install and tighten bolt from heater fan to bulkhead.
18. Install and torque tighten bolts (x2) from instrument panel to tunnel.
19. Install footwell carpet.
20. Install drivers side carpet retaining plate to bulkhead.
21. Install and torque tighten Allen bolts (x4).
22. Install gear lever mechanism and install and tighten screws (x6).
23. Install selector cable ball joints to gear lever mechanism.
24. Install centre column switch panel and connect multiplugs (x8).
25. Install rear centre console (see Workshop Manual 01.04.BB Centre Console Rear Renew).
26. Install LH and RH cant rail trim panels and install and tighten screws (x4).
27. Install trim finishers (x4) and install seals to door aperture.
28. Connect multiplugs (x11) from LH and RH 'A' post to instrument panel.
29. Install LH and RH 'A' post trim panels.
30. Install LH and RH 'A' post door trim plates.
31. Install rivets (x2), install and tighten screws (x2).
32. Install seal to door aperture.
33. Install LH and RH side tread plates and tighten screws (x12).
34. Install LH and RH side tread plate badges and tighten screws (x4).
35. Install RH door (see Workshop Manual 01.03.EA Door Assembly - RH - Remove for Access & Refit).
36. Fill cooling system (see Workshop Manual 03.03.AD Coolant - Drain & Refill).
37. Re-charge air conditioning system (see Workshop Manual 12.03.FA Tank - Receiver Drier - Renew).
38. Connect vehicle battery.

Driver Upper Inner Panel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Driver Upper Inner Panel Assembly-Renew	01.12.AC

Removal

1. Remove instrument cluster hood assembly (6 clips) (see Fig. 1).



Fig. 1

2. Remove driver's upper inner panel assembly (5 clips) (see Fig. 2).



Fig. 2

Installation

1. Install driver's upper inner panel assembly (5 clips).
2. Install instrument cluster hood assembly (6 clips).

Driver Outer Upper Panel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Driver Outer Upper Panel Assembly-Renew	01.12.AD

Removal

1. Remove instrument cluster hood assembly (6 clips)
2. Remove driver's upper outer panel assembly (4 clips) (see Fig. 1).



Fig. 2

Installation

1. Install driver's upper outer panel assembly (4 clips)
2. Install instrument cluster hood assembly (6 clips)

Passenger Upper Panel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Passenger Upper Panel Assembly-Renew	01.12.AE

Removal

1. Remove air bag panel and door assembly (see Workshop Manual 01.12.AJ Panel & Door Assembly - Air Bag - Renew).
2. Remove panel (2 clips & 2 screws).

Installation

1. Install panel (2 clips & 2 screws).
2. Install air bag panel and door assembly (see Workshop Manual procedure 01.12.AJ Panel & Door Assembly - Air Bag - Renew).

Passenger Panel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Passenger Panel Assembly-Renew	01.12.AF

1. Remove passenger upper panel assembly (see Workshop Manual procedure 01.12.AE Panel Assembly - IP - Upper - Passenger - Renew).

- Remove passenger panel assembly (4 clips & 4 screws)
See Fig. 1).

**Fig. 1****Installation**

- Install passenger panel assembly (4 clips & 4 screws).
- Install passenger upper panel assembly (see Workshop Manual procedure 01.12.AE Panel Assembly - IP - Upper - Passenger - Renew).

Passenger Lower Panel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Passenger Lower Panel Assembly-Renew	01.12.AG

Removal

- Remove passenger's lower panel (5 clips & 1 multiplug).

Installation

- Install passenger's lower panel (5 clips & 1 multiplug).

Driver Lower Panel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Driver Lower Panel Assembly-Renew	01.12.AH

Removal

- Remove driver's lower panel assembly (7 clips) and disconnect air temperature pipe (see Fig. 1).

**Fig. 1****Installation**

- Install driver's lower panel assembly (7 clips) and connect air temperature pipe.

Airbag Panel and Door Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Airbag Panel and Door Assembly-Renew	01.12.AJ

Removal

- Remove glovebox assembly (see Workshop Manual procedure 01.12.AL Glovebox Assembly - Renew).
- Remove glovebox shield (see Fig. 1).

**Fig. 1**

3. Remove the bolts (x3) that secure the airbag panel and door assembly plate to the chassis (see Fig. 2).



Fig. 2

4. Remove airbag panel and door assembly (5 clips) (see Fig.3).



Fig. 3

Installation

1. Install airbag panel and door assembly (5 clips).
2. Through glovebox aperture, install support right-angled bar and secure bolts (x3).
3. Remove and clean double-sided taped from glovebox shield, apply new tape and install.
4. Install glovebox assembly (see Workshop Manual procedure 01.12.AL Glovebox Assembly - Renew).
5. Install passenger lower panel assembly (5 clips and 1 multiplug).

Instrument Cluster Hood Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Instrument Cluster Hood Assembly-Renew	01.12.AK

Removal

1. Remove hood assembly complete (6 clips).

Installation

1. Install hood (6 clips).

Glovebox Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Glovebox Assembly-Renew	01.12.AL

Removal

1. Remove passenger lower panel assembly (5 clips & multiplug).
2. Remove the securing screws holding the glove box hinge to the chassis (x2).
3. Support the glove box and locate the latch mechanism.
4. Using a suitable tool press the latch mechanism to release the glove box.
5. Support the glove box and detach the buffer cord from the glove box.

Installation

1. Support glovebox and attach the buffer cord (ensure the cord is through correct aperture).
2. Install glovebox into aperture and press top to latch.
3. Align the glovebox hinge and secure with screws (x2) including spacers between the hinge and chassis.
4. Install passenger lower panel assembly (5 clips and 1 multiplug).

Knee Protector-Renew

Repair Operation Time (ROT)	
Item	Code
Knee Protector-Renew	01.12.AN

Removal

1. Remove driver's lower panel assembly (7 clips) and disconnect air temperature pipe.
2. Disconnect footwell light and remove unit from panel.
3. Mark one socket for relocation and remove diagnostic sockets (x2) from panel.
4. Remove pop-rivets (x5), screws (x4) and remove panel.

Installation

1. Align knee protector panel in position and secure with screws (x4).
2. Install pop-rivets (x5).
3. Install diagnostic sockets (x2) (ensure marked socket is in correct location).
4. Install footwell light and reconnect multiplug.
5. Install driver's lower panel assembly (7 clips) and connect air temperature pipe.

Glovebox Shield-Renew

Repair Operation Time (ROT)	
Item	Code
Glovebox Shield-Renew	01.12.AP

Removal

1. Remove glovebox (see Workshop Manual procedure 01.12.AL Glovebox Assembly - Renew).
2. Remove glovebox shield.

Installation

1. Remove and clean double-sided tape from shield, apply new tape and install.
2. Install glovebox (see Workshop Manual procedure 01.12.AL Glovebox Assembly - Renew).

Glove Compartment Damper Spring-Renew

Repair Operation Time (ROT)	
Item	Code
Glove Compartment Damper Spring-Renew	01.12.AS

Removal

1. Remove glovebox and shield (see Workshop Manual procedure 01.12.AP Shield - Glovebox - Renew).
2. Remove securing screws (x2) from damper spring unit.

Installation

1. Install damper spring unit with screws (x2).
2. Install shield and glovebox (see Workshop Manual procedure 01.12.AP Shield - Glovebox - Renew).

Cluster Bezel Panel-Renew

Repair Operation Time (ROT)	
Item	Code
Cluster Bezel Panel-Renew	01.12.AT

Removal

1. Remove instrument cluster hood assembly (6 clips) (see Fig. 1).



Fig. 1

2. Remove driver's upper outer panel assembly (4 clips) (see Fig. 2).



Fig. 2

3. Remove driver's upper inner panel assembly (5 clips) (see Fig. 3).



Fig. 3

4. Remove instrument cluster bezel panel (5 screws) and remove steering column cover (2 screws).

Installation

1. Install steering column cover to instrument cluster bezel panel (2 screws) and then install bezel to instrument cluster (5 screws).
2. Install instrument cluster hood (6 clips).
3. Install driver's upper inner panel assembly (5 clips).
4. Install driver's upper outer panel assembly (4 clips).

Driver Panel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Driver Panel Assembly-Renew	01.12.AU

Removal

1. Remove instrument panel hood assembly (6 clips) (see Fig. 1)



Fig. 1

2. Remove driver's upper outer panel assembly (4 clips) (see Fig. 2).



Fig. 2

3. Remove driver's upper inner panel assembly (5 clips) (see Fig. 3).



Fig. 3

4. Remove driver's panel assembly (3 screws & 4 clips).

Installation

1. Install driver's panel assembly (3 screws & 4 clips).
2. Install driver's upper inner panel assembly (5 clips).
3. Install driver's upper outer panel assembly (4 clips).
4. Install instrument cluster hood assembly (6 clips).

Instrument Panel Bezel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Instrument Panel Bezel Assembly-Renew	01.12.AV

Removal

1. Using special tool, release instrument panel bezel assembly clips (x4) from IP.
2. Restrain panel movement and disconnect starter button multiplug.
3. Remove panel assembly.

Installation

1. Position panel assembly and connect starter button multiplug.
2. Install panel and secure in clips (x4).

Radio Speaker Grille Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Radio Speaker Grille Assembly-Renew	01.12.AW

Removal

1. Remove instrument panel bezel assembly (see Workshop Manual procedure 01.12.AV Bezel Assembly - Instrument Panel - Renew).
2. Remove radio speaker grill.

Installation

1. Install radio speaker grill.

2. Install instrument panel bezel assembly (see Workshop Manual procedure 01.12.AV Bezel Assembly - Instrument Panel - Renew).

Glovebox Open Switch-Renew

Repair Operation Time (ROT)	
Item	Code
Glovebox Open Switch-Renew	01.12.BA

Removal

1. Remove passenger's lower panel (5 clips & 1 multiplug).
2. Remove glovebox open switch.

Installation

1. Install glovebox open switch.
2. Install passenger's lower panel assembly (5 clips & 1 multiplug).

Console Panel Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Console Panel Assembly-Renew	01.12.DB

Removal

1. Remove storage compartment door.
2. Remove bolt (x1) and screws (x5) securing support rail to body.
3. Remove screw (x1) securing centre arm rest to console.
4. Release and remove arm rest
5. Remove rear console.
6. Release gear lever gaiter.
7. Remove screws (x2) securing panel assembly to floor.
8. Release switch panel and disconnect multiplugs (x6) and Lucar connectors (x2).
9. Remove switch panel.
10. Remove boot release and central locking switch.
11. Remove switches below ashtray (x4)
12. Remove Ashtray from panel assembly (Allen screws x4).

Installation

1. Install ashtray to panel.
2. Install switches (x4).
3. Install switch panel screws (x2).
4. Install boot release and central locking switch to panel assembly console.
5. Position switch panel and connect multiplugs and Lucar connectors.
6. Install gear lever gaiter.
7. Install rear console and arm rest assembly.
8. Install rear support rail.
9. Install storage compartment door.

Master Lock Switch-Renew

Repair Operation Time (ROT)	
Item	Code
Master Lock Switch-Renew	01.12.EA

Removal

1. Remove console panel assembly (see Workshop Manual procedure 01.12.DB Panel Assembly Console - Renew).
2. Remove torx screw master lock to panel.
3. Remove switch from panel.

Installation

1. Position switch and install torx screw master lock switch to panel.
2. Install console panel assembly (see Workshop Manual procedure 01.12.DB Panel Assembly Console - Renew).

IDV Control Switch-Renew

Repair Operation Time (ROT)	
Item	Code
IDV Control Switch-Renew	01.12.EB

Removal

1. Remove centre stack assembly (see Workshop Manual procedure 15.01.CB Centre Stack Assembly - Remove for Access & Refit).
2. Release clips and remove IDV control switch from centre stack.

Installation

1. Install IDV control switch and secure with clips.
2. Install centre stack assembly (see Workshop Manual procedure 15.01.CB Centre Stack Assembly - Remove for Access & Refit).

Heated Front Screen Switch-Renew

Repair Operation Time (ROT)	
Item	Code
Heated Front Screen Switch-Renew	01.12.EC

Removal

1. Remove console panel assembly (see Workshop Manual procedure 01.12.DB Panel Assembly Console - Renew).
2. Remove heated front screen switch from panel.

Installation

1. Install heated front screen switch to panel.
2. Install console panel assembly (see Workshop Manual procedure 01.12.DB Panel Assembly Console - Renew).

PDC Off Switch-Renew

Repair Operation Time (ROT)	
Item	Code
PDC Off Switch-Renew	01.12.ED

Removal

1. Remove console panel assembly (see Workshop Manual procedure 01.12.DB Panel Assembly Console - Renew)



2. Remove PDC switch from panel.

Installation

1. Install PDC switch to panel.
2. Install console panel assembly (see Workshop Manual procedure01.12.DB Panel Assembly Console - Renew).

Body System (01.00)

Handles and Lock Mechanisms (01.14)

Description

Vehicle Key/Remote Transmitter

The vehicle key operates the ignition and the door lock, the remote transmitter operates the central locking and alarm systems.

Do not leave them in the vehicle.

Central Locking System

The Central Locking system consists of lock actuators in both doors, the boot and the fuel flap. Central locking control is through the door modules.

Each lock actuator incorporates a microswitch which signals a change of state when any motor runs to drive the actuator. The microswitches are of the change over type and provide an earth for lock/unlock signals to the door module.

The boot will remain locked or will be unlocked simultaneously with the doors dependant on the boot lock position. The boot lock can be enabled at any time using the remote transmitter irrespective of the Central Locking status.

Remote Transmitter

The remote control system consists of a transmitter and an antenna (radio frequency system). The remote control transmitter for the radio frequency system will operate without the transmitter being directed at the vehicle. The normal range between the transmitter and the antenna is up to 5 meters. Before the remote control system can be used, each transmitter must be initialized to the vehicle. A maximum number of four transmitters can be initialized to any vehicle. All remote transmitters must be initialized at the same time. The keyless entry / remote operated locks will not operate when the ignition key is in the ignition switch.

(A) Lock - One step vehicle locking and alarm enable.

The vehicle will deadlock after 25 seconds.

(B) Un-lock - One step vehicle unlocking or two step vehicle unlocking and alarm disable.

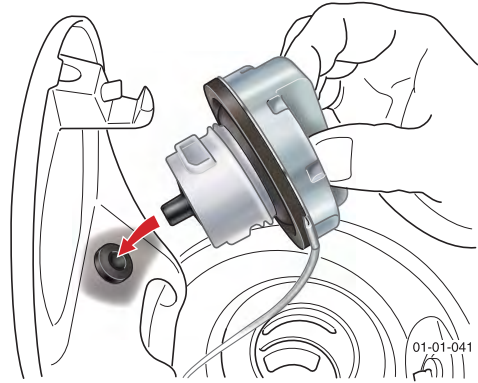
(C) Boot Open - Press to enable the boot catch.

(D) Panic Alarm - Activates / deactivates the panic alarm.

(E) Approach Light - Activates the front and rear side lights.

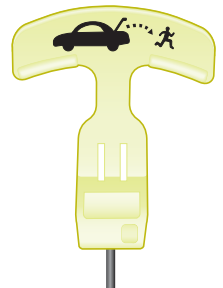


Fuel Filler Assembly



Boot Emergency Release

The boot can be opened from inside the boot by pulling the luminous emergency release handle.





Specifications

Torque Figures

Description	Nm
Door handle	5
Latch	9

Maintenance

RH/LH Front Door Latch Assembly-Renew

Repair Operation Time (ROT)

Item		Code
Front Door Latch Assembly	RH	01.14.CE
Front Door Latch Assembly	LH	01.14.CF

Removal

1. Remove door trimboard assembly (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).
2. Remove glass regulator (see Workshop Manual procedure 01.11.DA/01.11.DB Regulator - Door Glass - RH/LH - Renew).
3. Remove aperture seal from inside door.
4. Remove rear rubber cheater panel, fir tree trim pins (x3), and inner glass seal.
5. Disconnect latch mechanism multiplug (x1).
6. Disconnect exterior door handle inner and outer cable.
7. Remove exterior door handle securing nuts (x3).
8. Loosen top nut (x1) and remove bottom nut (x1) from key lock mechanism.
9. Remove door latch securing bolts (x3).
10. Feed interior latch handle cable through inner skin into door interior.
11. Remove latch and keylock mechanisms carefully through aperture.

Installation

1. Install latch and key lock mechanisms through door aperture and feed interior door latch handle cable through aperture.
2. Align door latch and secure with bolts (x3).
3. Align key lock mechanism and secure nuts (x2).
4. Refit exterior door handle and secure with nuts (x3).
5. Connect latch inner and outer cable to exterior door handle.
6. Connect latch mechanism multiplug (x1).
7. Refit inner glass seal and rubber rear cheater panel, push home fir tree trim pins (x3).
8. Refit door aperture seal.
9. Install glass regulator (see Workshop Manual procedure 01.11.DA/01.11.DB Regulator - Door Glass - RH/LH - Renew).

10. Install trimboard assembly (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).

0114BD | Latch Assembly - Hood - Renew

Repair Operation Time	
Item	Code
Hood Latch Assembly-Renew	01.14.BD

Removal

1. Remove grille (see Workshop Manual procedure 01.08.AA Grille - Radiator - Renew
2. Remove slam panel (bolts x12).
3. Remove bolts (x4) securing PAS oil cooler.
4. Remove bolts securing crossmember to inner wing (x4).
5. Remove bolts and spacers securing crossmember to wing (x2).
6. Move crossmember to one side and lift up clear of location (protect paintwork).
7. Disconnect bonnet latch multiplug.
8. Remove switch from latch body (to access cable).
9. Disconnect bonnet latch cable.
10. Remove bonnet latch from crossmember (screws x2).

Installation

1. Install bonnet latch to crossmember (screws x2).
2. Connect bonnet latch cable.
3. Install switch to latch body.
4. Connect bonnet latch multiplug.
5. Install crossmember (as removed).
6. Install bolts and spacers securing crossmember to wing (x2).
7. Install bolts securing crossmember to inner wing (x4).
8. Install bolts (x4) securing PAS oil cooler.
9. Install slam panel (bolts x12).
10. Install grille (see Workshop Manual procedure 01.08.AA Grille - Radiator - Renew).

RH/LH External Front Door External-Renew

Repair Operation Time	
Item	Code
External Front Door Handle-Renew	RH 01.14.CJ
External Front Door Handle-Renew	LH 01.14.CK

Removal

1. Remove door trimboard (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).
2. Release outer and inner cable from external door handle.
3. Remove nuts (x3) securing external door handle to door frame.
4. Manoeuvre and remove external door handle.

Installation

1. Clean door handle and mating face on door.
2. Install external door handle, install and torque tighten nuts (x3).
3. Connect inner and outer cable to external door handle.
4. Install door trimboard (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).

Reduced Guard Switch-Renew

Repair Operation Time (ROT)	
Item	Code
Reduced Guard Switch-Renew	01.14.EA

Removal

1. Open driver's door, release reduced guard switch and disconnect multiplug.

Installation

1. Open driver's door, connect multiplug and install reduced guard switch in aperture

Passenger Airbag On/Off Switch-Renew

Removal

Repair Operation Time (ROT)	
Item	Code
Passenger Airbag On/Off Switch-Renew	01.14.EB

1. Disconnect battery and wait ten minutes for airbag capacitor to discharge
2. Disconnect multiplug from passenger airbag on/off switch.
3. Open passenger door and release switch catches and withdraw switch

Installation

1. Insert switch into IP unit and push in until clips are secure, reconnect multiplug.
2. Connect battery

Tailgate Release Switch-Renew

Repair Operation Time (ROT)	
Item	Code
Tailgate Release Switch-Renew	01.14.HC

Removal

1. Remove tailgate trim panel (see Workshop Manual procedure 01.05.EF Trim - Tailgate Lid Assembly - Renew).
2. Disconnect multiplug
3. Release harness from tailgate
4. Remove securing nuts (x2), place switch to one side

Installation

1. Install switch and secure with nuts (x2)
2. Secure harness to tailgate
3. Connect multiplug

4. Install tailgate trim panel (see Workshop Manual procedure 01.05.EF Trim - Tailgate Lid Assembly - Renew).

Passenger Window Lift Switch-Renew

Repair Operation Time	
Item	Code
Passenger Window Lift-Renew	01.11.FA

Removal

1. Remove door trim board (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).
2. Remove screws (x4) window lift switch to door trim board and remove switch.

Installation

1. Install window lift switch to door trim board.
2. Install door trim board (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).

Driver Window Lift Switch-Renew

Repair Operation Time	
Item	Code
Driver Window Lift-Renew	01.11.FB

Removal

1. Remove door trim board (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).
2. Remove screws (x4) window lift switch to door trim board and remove switch.

Installation

1. Install window lift switch to door trim board.
2. Install door trim board (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).



Body System (01.00)**Wipers and Washer System (01.16)**

The wipers and washers system consists of the following components:

- Wipers and washers
- Mounting arm and pivot shaft
- Wiper motor
- Reservoir and washer pump
- Headlamp washing system

The wipers have two speed control (low and high) and an intermittent wipe mode. The wipers will park automatically irrespective of their position when the 'Off' position of the ignition or control switch is selected.

Within the wiper and washer system the following features can be attained:

- Adjustable interval intermittent wiping
The intermittent wiping has six speed settings, 3, 6, 9, 12, 15, 18 seconds.
- Programmable wash and wipe sequences

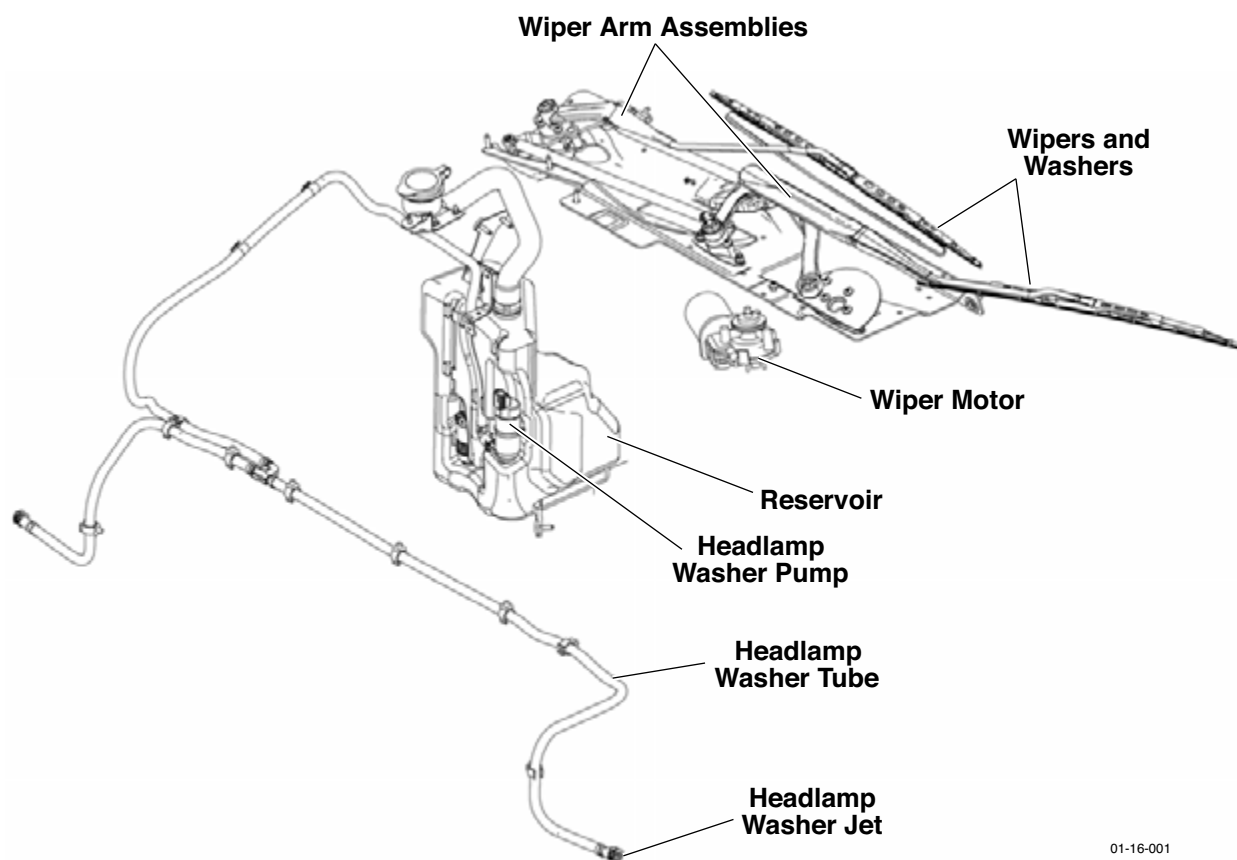
The programmable wash and wipe sequence is driver controlled. With a depression of the wash/wipe switch between 40 milliseconds and 1.2 seconds the wash pump will be activated for a duration of 1.2 seconds. When the wash/wipe switch is depressed for longer than 1.2 seconds the wash pump will be activated for the duration of switch depression, a 10 second duration is the maximum available.

- Vertical wiper park routine to aid servicing the wiper blades.

Hold buttons 8 and 9 (centre console) on continuously for 500ms within 3 seconds of switching the ignition 'ON'. Once ignition is 'ON' the wipers will move to the most vertical position. To cancel simply switch 'OFF' ignition or switch wiper switch from 'OFF' position.

Wipers must be in 'OFF' position before continuing with procedure.

The wiping system is automatically activated with the depression of the wash switch.



01-16-001

Headlamp Washing

Headlight washers will operate automatically on operation of the windscreen washers. After one operation of the headlamp washers they will not operate for 16 minutes, after

which they will be available on the next operation of the windscreen washers.

Headlamp washing is only available when the headlamps are switched on.

Specifications

Torque Figures

Description	Torque Figure (Nm)
Wiper motor crank to motor	35-42Nm
Wiper motor to cowl panel	7-10Nm
Wiper assembly plate	6Nm (M6 Torx) 8Nm (M6 Bolt)
Brake servo nuts	21-24Nm
Brake master cylinder nuts	25
Wiper arm (Driver)	13-17Nm (M8 Nut)
Wiper arm (Passenger)	20-26Nm (M10 Nut) 5-7Nm (M6 Bolt)

Maintenance

Windscreen Wiper Motor Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Windscreen Wiper Motor Assembly-Renew	01.16.BB

Removal

1. Remove wiper linkage.
2. Remove arm from motor (nut x1).
3. Remove motor from plate (bolts x3).

Installation

1. Install motor to plate (bolts x3).
2. Ensure wiper motor is in the 'PARK' position.
3. Install arm from motor (nut x1), using special tool.
4. Install wiper linkage.

Wiper Linkage Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Wiper Linkage Assembly-Renew	01.16.BA

Removal

1. Remove brake booster (see Workshop Manual procedure 06.07.AC Brake Booster - LHD Renew).
2. Remove inlet manifold (see Workshop Manual procedure 03.01.BB Gasket - Manifold Assembly - Intake Upper - Renew).
3. Remove LH wiper arm (see Workshop Manual procedure 01.16.AD Arm Assembly - Wiper - LHS - Renew).
4. Remove RH wiper arm (see Workshop Manual procedure 01.16.AE Arm Assembly - Wiper - RHS - Renew).
5. Unclip expansion tank hose for access.
6. Remove sound deadening (trim buttons x6).
7. Remove seal from spindle.
8. Remove nuts (x2) from heatshield to move aside.

9. Unclip wiper motor harness (x2) LHS.
10. Unclip windscreen heater harness RHS.
11. Disconnect motor multiplug and unclip harness (x2).
12. To prevent damage, protect A/C pipe with tape before wiper linkage removal.
13. Remove plate securing screws (x10) (through plenum).
14. Remove plate securing bolts (x8) (under bonnet).
15. Remove wiper linkage.

Installation

1. Install wiper linkage.
2. Install plate securing bolts (x8) (under bonnet).
3. Install plate securing screws (x10) (through scuttle panel).
4. Connect motor multiplug and clip harness (x2).
5. Clip harness LHS.
6. Clip harness RHS.
7. Refit heatshield and install nuts (x2).
8. Install seal to spindle.
9. Install sound deadening (re-stick, trim buttons x6).
10. Clip expansion tank hose.
11. Install LH wiper arm (see Workshop Manual procedure 01.16.AD Arm Assembly - Wiper - LHS - Renew).
12. Install RH wiper arm (see Workshop Manual procedure 01.16.AE Arm Assembly - Wiper - RHS - Renew).
13. Install inlet manifold (see Workshop Manual procedure 03.01.BB Gasket - Manifold Assembly - Intake Upper - Renew).
14. Install brake booster (see Workshop Manual procedure 06.07.AC Brake Booster - LHD Renew).

Driver Wiper Arm Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Driver Wiper Arm Assembly-Renew	01.16.AD

Removal

1. Mark position of blade on windscreen.
2. Remove spindle nut and break taper to release arm.
3. Remove wiper blade (see Workshop Manual procedure 01.16.AB Blade Assembly - Wiper - Renew).

Installation

1. Install wiper blade (see Workshop Manual procedure 01.16.AB Blade Assembly - Wiper - Renew).
2. Fit arm to spindle, position to marked position and tighten arm (nut x1).
3. Operate wiper system with washers to ensure blade has correct wipe and park position.

Passenger Wiper Arm Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Passenger Wiper Arm Assembly-Renew	01.16.AE

Removal

1. Mark position of blade on windscreen.
2. Remove screws (x3) from idler plate.
3. Remove spindle nut and break taper to release arm.
4. Remove wiper blade (see Workshop Manual procedure 01.16.AB Blade Assembly - Wiper - Renew).

Installation

1. Install wiper blade (see Workshop Manual procedure 01.16.AB Blade Assembly - Wiper - Renew).
2. Fit arm to vehicle to idler first (screws x3).
3. Fit arm to spindle, position to marked position and tighten arm (nut x1) (torque).
4. Operate wiper system with washers to ensure blade has correct wipe and park position.

Windscreen Reservoir and Motor Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Windscreen Reservoir and Motor Assembly-Renew	01.16.DA

Removal

1. Remove RH wheel arch liner.
2. Disconnect Windscreen washer pipe to drain reservoir into suitable container.
3. Disconnect clips (x2) securing battery harness to bottom of reservoir (move aside).
4. Disconnect clip (x1) securing level sensor harness to reservoir.
5. Remove rear lower reservoir fixing.
6. Lower ramp.
7. Disconnect windscreen washer motor multiplug.
8. Unclip headlamp washer pipe and turn motor to disconnect pipe (quickfit) and multiplug
9. Unclip windscreen Washer pipe from reservoir.
10. Remove reservoir retaining screws (x2).
11. Allow reservoir to drop, then disconnect filler tube (clip x1).
12. Manoeuvre reservoir down and forward to access, disconnect level sensor multiplug.

Installation

1. Connect level sensor multiplug and manoeuvre reservoir into position.
2. Connect filler pipe (clip x1).
3. Install fixing screws (x3).
4. Clip windscreen Washer pipe into reservoir and install to motor.

5. Clip headlamp washer pipe, connect pipe (quickfit) and multiplug.
6. Connect windscreen washer motor multiplug.
7. Raise ramp.
8. Connect clip (x1) securing level sensor harness to reservoir.
9. Connect clips (x2) securing battery harness to bottom of reservoir
10. Remove RH wheel arch liner.
11. Fill washer reservoir.

Windshield Wash Filler Neck-Renew

Repair Operation Time (ROT)	
Item	Code
Windshield Wash Filler Neck-Renew	01.16.DB

Removal

1. Remove nuts (x2) securing reservoir filler neck to bracket.
2. Release clip and remove reservoir filler neck from filler tube.

Installation

1. Install filler neck to filler tube (clip x1).
2. Position reservoir filler neck, Install and tighten nuts (x2).

Low Level Water Sensor-Renew

Repair Operation Time (ROT)	
Item	Code
Low Level Water Sensor-Renew	01.16.DC

Removal

1. Remove RH wheel arch liner (see Workshop Manual procedure 01.02.GB Wheel Arch Liner - Front - RH - Renew
2. Disconnect Windscreen washer pipe to drain reservoir into suitable container.
3. Disconnect clips (x2) securing battery harness to bottom of reservoir (move aside).
4. Disconnect clip (x1) securing level sensor harness to reservoir.
5. Remove rear lower reservoir fixing.
6. Lower ramp.
7. Disconnect windscreen washer motor multiplug.
8. Unclip H/lamp washer pipe and turn motor to disconnect pipe (quickfit) and multiplug.
9. Unclip W/Washer pipe from reservoir.
10. Remove reservoir retaining screws (x2).
11. Allow reservoir to drop, then disconnect filler tube (clip x1).
12. Manoeuvre reservoir down and forward to access, disconnect level sensor multiplug.
13. Remove level sensor and seal from reservoir.

Installation

1. Install level sensor and seal to reservoir.



2. Connect level sensor multiplug and manoeuvre reservoir into position.
3. Connect filler pipe (clip x1).
4. Install fixing screws (x3).
5. Clip W/Washer pipe into reservoir and install to motor.
6. Clip H/lamp washer pipe, connect pipe (quickfit) and multiplug.
7. Connect windscreen washer motor multiplug.
8. Raise ramp.
9. Connect clip (x1) securing level sensor harness to reservoir.
10. Connect clips (x2) securing battery harness to bottom of reservoir.
11. Remove RH wheel arch liner (see Workshop Manual procedure 01.02.GB Wheel Arch Liner - Front - RH - Renew).
12. Fill washer reservoir.
4. Install fixing screws (x3).
5. Clip W/Washer pipe into reservoir and install to motor.
6. Clip H/lamp washer pipe, connect pipe (quickfit) and multiplug.
7. Connect windscreen washer motor multiplug.
8. Raise ramp.
9. Connect clip (x1) securing level sensor harness to reservoir.
10. Connect clips (x2) securing battery harness to bottom of reservoir.
11. Remove RH wheel arch liner (see Workshop Manual procedure 01.02.GB Wheel Arch Liner - Front - RH - Renew).
12. Fill washer reservoir.

Washer Fluid Reservoir-Renew

Repair Operation Time (ROT)	
Item	Code
Washer Fluid Reservoir-Renew	01.16.FB

Removal

1. Remove RH wheel arch liner (see Workshop Manual procedure 01.02.GB Wheel Arch Liner - Front - RH - Renew).
2. Disconnect Windscreen washer pipe to drain reservoir into suitable container.
3. Disconnect clips (x2) securing battery harness to bottom of reservoir (move aside).
4. Disconnect clip (x1) securing level sensor harness to reservoir.
5. Remove rear lower reservoir fixing.
6. Lower ramp.
7. Disconnect windscreen washer motor multiplug.
8. Unclip H/lamp washer pipe and turn motor to disconnect pipe (quickfit) and multiplug.
9. Unclip W/Washer pipe from reservoir.
10. Remove reservoir retaining screws (x2).
11. Allow reservoir to drop, then disconnect filler tube (clip x1).
12. Manoeuvre reservoir down and forward to access, disconnect level sensor multiplug.
13. Remove level sensor and seal from reservoir.
14. Remove W/Washer motor and seal from reservoir.
15. Remove H/Lamp Washer motor & seal and support clip from reservoir.

Installation

1. Install H/Lamp Washer motor & seal and support clip to reservoir.
2. Install W/Washer motor and seal to reservoir.
3. Install level sensor and seal to reservoir.
4. Connect level sensor multiplug and manoeuvre reservoir into position.
5. Connect filler pipe (clip x1).
6. Install fixing screws (x3).

Headlamp Wash Motor and Pump Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Headlamp Wash Motor and Pump Assembly-Renew	01.16.EB

Removal

1. Remove RH wheel arch liner (see Workshop Manual procedure 01.02.GB Wheel Arch Liner - Front - RH - Renew).
2. Disconnect Windscreen washer pipe to drain reservoir into suitable container.
3. Disconnect clips (x2) securing battery harness to bottom of reservoir (move aside).
4. Disconnect clip (x1) securing level sensor harness to reservoir.
5. Remove rear lower reservoir fixing.
6. Lower ramp.
7. Disconnect windscreen washer motor multiplug.
8. Unclip H/lamp washer pipe and turn motor to disconnect pipe (quickfit) and multiplug.
9. Unclip W/Washer pipe from reservoir.
10. Remove reservoir retaining screws (x2).
11. Allow reservoir to drop, then disconnect filler tube (clip x1).
12. Manoeuvre reservoir down and forward to access, disconnect level sensor multiplug.
13. Remove H/Lamp Washer motor & seal and support clip from reservoir.

Installation

1. Install H/Lamp Washer motor & seal and support clip to reservoir.
2. Connect level sensor multiplug and manoeuvre reservoir into position.
3. Connect filler pipe (clip x1).

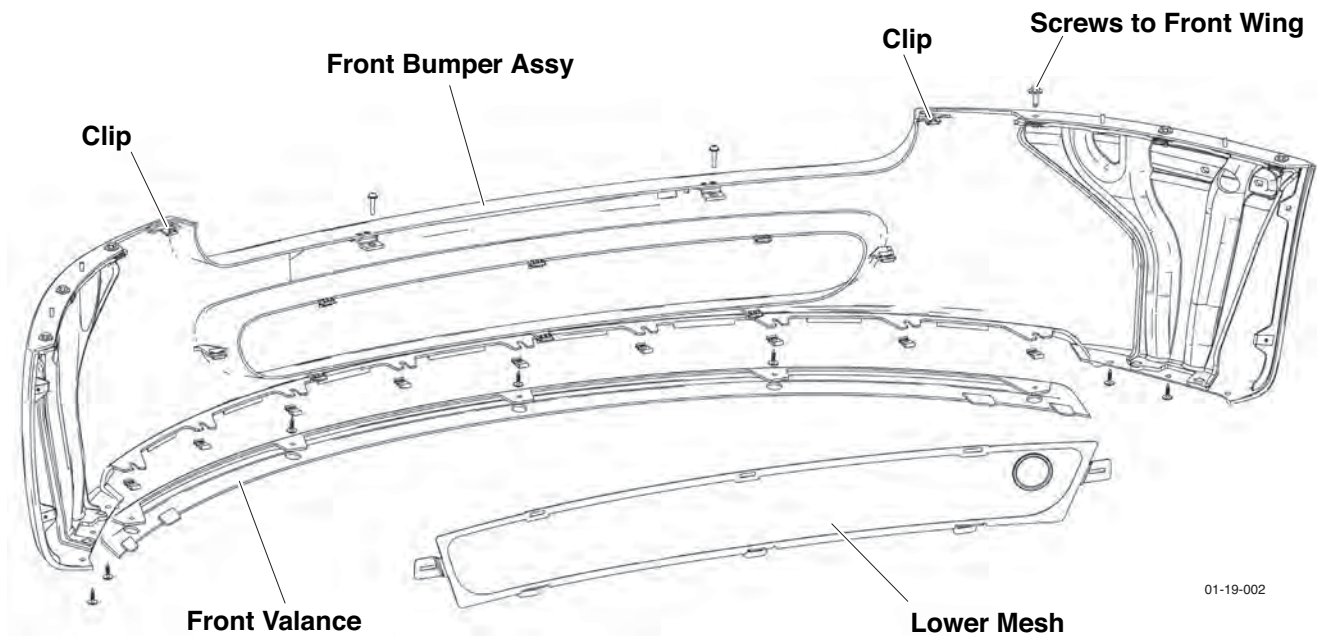
7. Clip W/Washer pipe into reservoir and install to motor.
8. Clip H/lamp washer pipe, connect pipe (quickfit) and multiplug.
9. Connect windscreen washer motor multiplug.
10. Raise ramp.
11. Connect clip (x1) securing level sensor harness to reservoir.
12. Connect clips (x2) securing battery harness to bottom of reservoir.
13. Remove RH wheel arch liner (see Workshop Manual procedure 01.02.GB Wheel Arch Liner - Front - RH - Renew).
14. Fill washer reservoir.



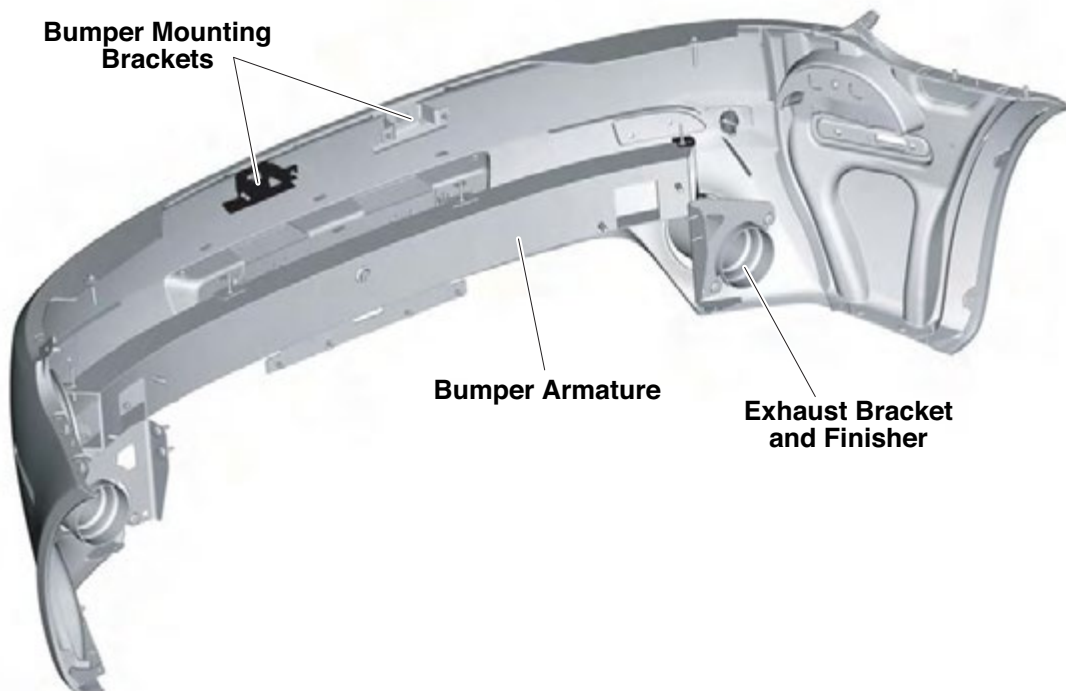
Body System (01.00)

Bumpers (01.19)

Front Bumper



Rear Bumper





Specifications

Torque Figures

Description	Nm
Front Bumper to bumper bracket	4-5
Rear Bumper to Bumper Bracket	2-3

Maintenance

Front Bumper Cover-Renew

Repair Operation Time (ROT)	
Item	Code
Front Bumper Cover-Renew	01.19.AA

Removal

1. Raise vehicle on ramp.
2. Remove front number plate and plinth (see Workshop Manual procedure 01.19.BD Licence Plate - Plinth Assembly - Front - Renew).
3. Remove screws (x2) securing front of undertray to bumper.
4. Remove LH front wheel arch liner (see Workshop Manual procedure 01.02.FB Wheel Arch Liner - Front - LH - Renew).
5. Remove RH front wheel arch liner (see Workshop Manual procedure 01.02.GB Wheel Arch Liner - Front - RH - Renew).
6. Remove bolts (x6) securing bumper to front wing
7. With assistance release bumper from clips (x2) and remove bumper.

Installation

1. With assistance position bumper and secure in clips (x2).
2. Install bolts (x6) bumper to front wing.
3. Install RH front wheel arch liner (see Workshop Manual procedure 01.02.GB Wheel Arch Liner - Front - RH - Renew).
4. Install LH front wheel arch liner (see Workshop Manual procedure 01.02.FB Wheel Arch Liner - Front - LH - Renew).
5. Install screws (x2) securing front undertray to bumper.
6. Install number plate and plinth (see Workshop Manual procedure 01.19.BD Licence Plate - Plinth Assembly - Front - Renew).
7. Lower vehicle on ramp.

Rear Bumper Cover-Renew

Repair Operation Time (ROT)	
Item	Code
Rear Bumper Cover-Renew	01.19.BA

Removal

1. Raise vehicle on ramp.
2. Remove number plate.

3. Remove LH rear lamp assembly (see Workshop Manual procedure 17.03.AB Lamp Assembly (Rear) - LH Renew).
4. Remove RH rear lamp assembly (see Workshop Manual procedure 17.03.BB XREF: 280 Lamp Assembly (Rear) - RH Renew).
5. Remove wheel arch liner LH (see Workshop Manual procedure 01.02.JB Wheel Arch Liner - Rear - RH - Renew).
6. Remove wheel arch liner RH (see Workshop Manual procedure 01.02.HB Wheel Arch Liner - Rear - LH - Renew).
7. Remove tyre mobility kit from the rack.
8. Remove torx bolts located behind carpets to rear wings (x2).
9. Remove bolts (x2) in rear light recess.
10. Remove bolts securing bumper to wheel arch (6).
11. Remove bolts (x4) securing bumper to brackets.
12. With assistance Release bumper from body.
13. Release fir trees securing harness to bumper (x6).
14. Release remaining harness to bumper clips (x6)
15. Disconnect multiplugs to parking aid sensors (x2).
16. Disconnect multiplugs to license plate lamps (x2).
17. Remove nuts (x6) securing exhaust finishers to stub pipes.
18. Remove number plate light assembly (clips x5).
19. Remove parking aid sensors (x2)
20. Remove screw retaining clips (x13)

Installation

1. Install screw retaining clips x13.
2. Install parking aid sensors x2.
3. Install number plate light assembly
4. Install exhaust finishers to stub pipe.
5. With assistance position bumper to body.
6. Connect multiplugs to license plate lamps X2.
7. Connect multiplug to parking aid sensors.
8. Secure harness to bumper (fir trees x6 and clips x6)
9. Install bumper bolts to brackets and body (x10).
10. Install tyre mobility kit to rack.
11. Install number plate.
12. Install RH rear lamp assembly (see Workshop Manual procedure 17.03.BB Lamp Assembly (Rear) - RH Renew).
13. Install LH rear lamp assembly (see Workshop Manual procedure 17.03.AB Lamp Assembly (Rear) - LH Renew).
14. Install wheel arch liner LH (see Workshop Manual procedure 01.02.JB Wheel Arch Liner - Rear - RH - Renew).
15. Install RH wheel arch liner (see Workshop Manual procedure 01.02.HB Wheel Arch Liner - Rear - RH - Renew).
16. Lower vehicle on ramp.

RH/LH Rear Lower Bumper Mesh-Renew

Repair Operation Time (ROT)		
Item		Code
Rear Lower Bumper Mesh	RH	01.19.CA
Rear Lower Bumper Mesh	LH	01.19.CB

Removal

1. Remove rear bumper (see Workshop Manual procedure 01.19.BA Cover Assembly - Rear Bumper - Renew).
2. Remove torx screws (x2) mesh to bumper armature.
3. Remove torx screw (x2) mesh to bumper bracket and rear of bumper armature.
4. Remove mesh.

Installation

1. Position mesh.
2. Install torx screws (x4) mesh to bumper bracket and armature.
3. install rear bumper (see Workshop Manual procedure 01.19.BA Cover Assembly - Rear Bumper - Renew).

Rear Diffuser-Renew

Repair Operation Time (ROT)		
Item		Code
Rear Diffuser-Renew		01.19.CC

Removal

1. Remove Allen bolts (x4) diffuser to parking distance sensor brackets.

Installation

1. Align diffuser and install Allen bolts (x4).

Rear Lower Assembly Centre Mesh-Renew

Repair Operation Time (ROT)		
Item		Code
Rear Lower Assembly Centre Mesh-Renew		01.19.CD

Removal

1. Remove rear bumper (see Workshop Manual procedure 01.19.BA Cover Assembly - Rear Bumper - Renew).
2. Remove Torx screws (x3) mesh to bumper armature.
3. Remove mesh.

Installation

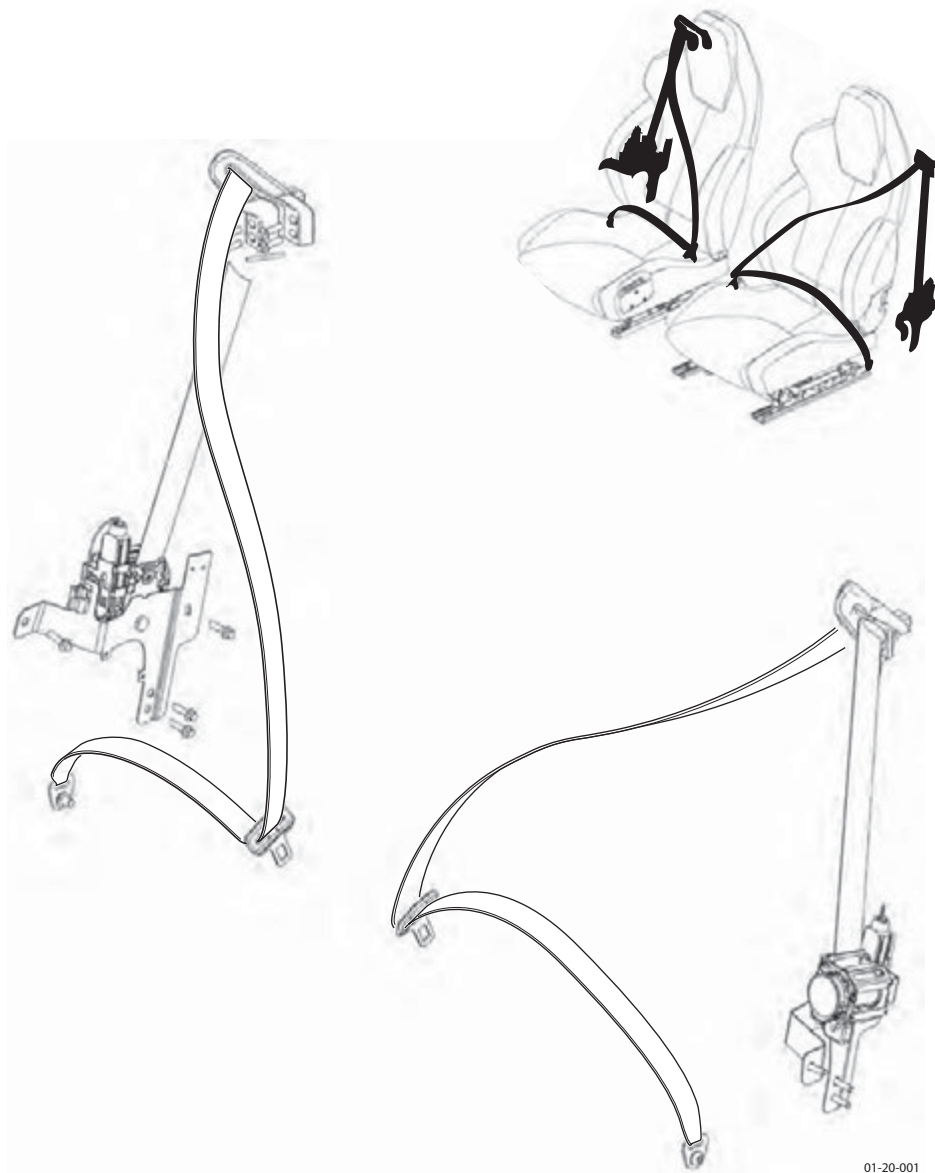
1. position mesh.
2. install torx screws (x3).
3. Install rear bumper (see Workshop Manual procedure 01.19.BA Cover Assembly - Rear Bumper - Renew).



Body System (01.00)

Restraining Devices (01.20)

Seat Belts



01-20-001

This vehicle is installed with two inertia reel safety belts. The inertia belt reels automatically tension the belts to provide security with comfort. In the event of a collision or during severe braking, the belt reels will lock.

The driver and front passenger safety belt buckles are installed with a switch, which is connected to a warning indicator housed within the DIM. When the ignition is first turned on the warning indicator will illuminate only if the seat belt is not fastened. If the safety belt is fastened before the ignition is turned on the circuit is broken and the indicator will remain off.

Pre-tensioner and Load Limiting Systems

The driver and front passenger seat belts are equipped with pre-tensioner and load limiting systems.

In most moderate frontal or near frontal accidents, the front airbag and pre-tensioner systems will deploy simultaneously.

In some moderate frontal or near frontal accidents, only the pre-tensioner system will deploy.

The pre-tensioners take up slack in the front seat belts as the airbags are expanding. The load limiting system releases belt webbing in a controlled manner to reduce belt force on the occupant's chest.

The RCM receives information on the status of the safety belt buckles from a switch contained in the buckle. Only fastened safety belts will activate.

The safety belt retractors, which are mounted within the base of the B pillars, incorporate a torsion bar load limiting device. This device consists of a retractor reel which is



mounted onto a spindle (torsion bar) which once the sensor has locked the retractor reel and a predetermined load is applied, twists and allows additional webbing into the system. The deceleration force required to initiate this sequence is approximately the same as that required to initiate airbag deployment. The torsion bar load limiting device will only react if the safety belt is in use at the time of the impact.

Caution

It should be considered that during any event that utilizes the full capability of the safety belts, the webbing may have been elongated and the torsion bar may have twisted. For this reason, if a vehicle is involved in an accident which results in the deployment of the airbag(s), all the safety belts that were in use at the time of the accident MUST be renewed.

Emergency Locking Retractor (ELR)

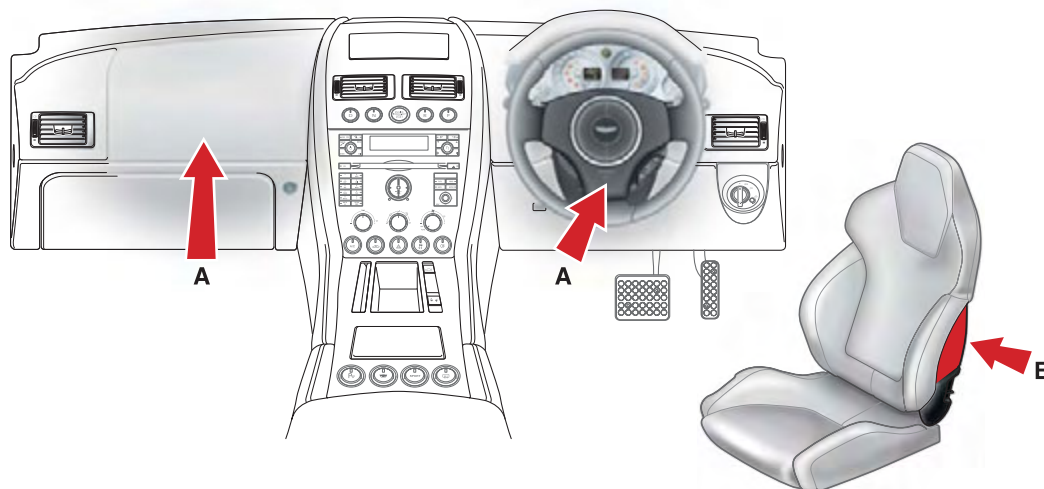
The retractors in all seat positions feature ELR. During any period of sudden deceleration, or under lateral load when cornering at speed, a sensor weight within the safety belt retractor moves a locking pawl against the teeth on the retractor reel, which then locks the retractor preventing any further release of webbing. As soon as the load applied onto the retractor through the safety belt webbing is removed the locking pawl releases the retractor reel and normal movement is returned to the retractor.

Automatic Locking Retractor (ALR)

Automatic locking retractors (ALR) are installed to all passenger seat positions.

The safety belt webbing on these are clearly marked to show their operating feature. To initiate the ALR system, fasten the safety belt into its buckle and pull all of the webbing from the retractor, as the safety belt is released the retractor locks allowing travel in only one plane thus producing a fixed length restraint and preventing the safety belt from introducing slack, making any child seat it may be restraining secure. The ALR system of the retractor is disengaged by releasing the safety belt and allowing the safety belt to fully retract onto the reel.

Airbag System



The airbag system is designed to provide increased collision protection for front seat occupants in addition to that provided by the safety belt system. Safety belt use is necessary to obtain the best occupant protection and to receive the full advantages of the airbag system.

This vehicle is equipped with driver, passenger, side impact airbags and seat belt pretensioners, which are electrically controlled an RCM (Restraints Control Module).

The driver and passenger airbags (A) only deploy in a serious front collision. The side airbags (B (one airbag in each front seat)) only deploy according to which side has been impacted in a serious side collision.

The purpose of the driver, passenger and side airbags is to provide **additional** protection for the front seat occupants in the event of a serious impact (front or side impacts). The airbags are supplementary to the seat belts.

Airbag Deployment

⚠ Warning ⚠

Airbags inflate rapidly and with considerable force, there is therefore a risk of death or serious injury such as fractures, facial and eye injuries or internal injuries, particularly to occupants who are not properly restrained by seat belts or are not sitting correctly when the airbags deploy. The risk of injury from a deploying airbag is greatest close to the trim covering the airbag.

⚠ Warning ⚠

The whole sequence of airbag deployment, from sensing the impact to full inflation of the airbag takes place in a fraction of a second.

The noise and gas associated with the deployment of the airbags are not injurious to health.

Driver airbag Module

The driver airbag module is installed in the steering wheel, the cover forming the outer surface of the steering wheel boss. The cover has a split line moulded into its surface allowing the airbag to exit through the cover when the system deploys.

No routine maintenance is required and there are no serviceable parts. The driver airbag module is replaced as an assembly.

Passenger Airbag Module

The passenger airbag module is located above the glove compartment behind a deployment panel.

The passenger airbag deployment panel hinges up out of the way during airbag deployment.

The passenger airbag module is replaced as an assembly. There is no routine maintenance required and there are no serviceable parts.

Side Airbag Module

A side impact airbag module is mounted in the outboard bolster of each front seat and uses compressed argon to inflate. It provides protection for the thorax (the part of the torso between the neck and the abdomen). In a side airbag module deployment situation, the airbag module deploys from behind a hard trim panel.

Clockspring

The airbag clockspring continuously transfers electrical signals from the driver airbag module to the airbag sensor.

The airbag clockspring is mounted on the steering column, behind the steering wheel and does not contain any serviceable components. Ensure that the steering wheel is locked in the central position before commencing any work on the steering column, wheel or airbag.

Control Module

The primary purpose of the RCM is to discriminate between an event that warrants an airbag system deployment and an event that does not. The RCM governs the operation of the whole system and performs continual system diagnostics. Information on the severity of an impact is received from the impact sensors.

Variations in the deployment of the front airbag modules are dependent on the status of the front safety belt buckles.

Dual Inflation Technology

When activated, the airbags will deploy at either a normal or reduced level of inflation, depending on crash severity. Various sensors determine the direction and severity of an impact. The system analyses this information then deploys the appropriate airbags.

Impact Sensors

Side Impact - Side impact sensors are mounted to the base of each B-pillar and within each door. In the event of a side impact, the RCM processes the impact data sent by the side impact sensor against stored data. The RCM will deploy the side airbag on the side the deployment request was initiated and the seat belt pretensioner.

Front Impact - Front impact sensors (x2) are located under the grill opening panel.

The SRS module processes the impact data sent by the front impact sensor against stored data, and deploys the front airbags, and the seat belt pretensioners.

Passenger Airbag Deactivation

The passenger airbag can be deactivated using the PAD (Passenger Airbag Deactivation) switch. Switching the passenger airbag off allows children under the age of 12 to be carried safely in the passenger seat. The PAD switch is located at the passenger end of the instrument panel and is accessible when the passenger door is open.

Note

Please see the Owner's Guide for the full deactivation procedure.

Warning

Unnecessary deactivation of the passenger airbag is dangerous. The passenger will not receive the added protection from the airbag and serious injuries or even death could occur. With the exception of installing a child seat on the passenger seat, do not turn the passenger airbag deactivation switch to the off position.

Warning

Never place a child in a child seat or on a booster cushion in the passenger seat if the airbag is active.

Maintenance

Driver's Airbag Module-Renew

Repair Operation Time (ROT)	
Item	Code
Driver's Airbag Module-Renew	01.20.AC

Removal

1. Disconnect vehicle battery.
2. Allow a two minute power down period to de-activate airbag system.

3. Rotate steering wheel to access and remove bolts (x2) from driver's airbag module to steering wheel (see Fig. 1).



Fig. 1

4. Release driver's airbag module, disconnect multiplugs (x2) and remove airbag module (see Fig 2).



Fig. 2

Installation

1. Position driver's airbag module and connect multiplugs (x2).
2. Install bolts (x2) and tighten (8-10 Nm).
3. Connect vehicle battery.

Passenger Airbag-Renew

Repair Operation Time (ROT)	
Item	Code
Passenger Airbag-Renew	01.20.CA

Removal

1. Disconnect battery for minimum of 10 minutes.
2. Remove airbag panel and door assembly (see Workshop Manual procedure 01.12.AJ Panel & Door Assembly - Air Bag - Renew).
3. Remove airbag unit (4 bolts & 2 multiplugs).

Installation

1. Install airbag unit (4 bolts & 2 multiplugs).

2. Install airbag panel and door assembly (see Workshop Manual procedure 01.12.AJ Panel & Door Assembly - Air Bag - Renew).
3. Connect battery and reset codes.

Side Impact Door ARS Sensor Assembly-Renew

Repair Operation Time (ROT)	
Item	Code
Side Impact Door ARS Sensor Assembly-Renew	01.20.DD

Removal

1. Remove door trimboard assembly (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).
2. Remove door module securing bolts (x4), swing downwards.
3. Remove door impact sensor plate securing bolts (x3) and disconnect sensor multiplug (x1).
4. Remove sensor securing nuts (x2) from plate.

Installation

1. Install sensor on plate and secure nuts (x2).
2. Connect sensor multiplug (x1) and fit plate securing bolts (x3).
3. Install door module with securing bolts (x4).
4. Install door trimboard assembly (see Workshop Manual procedure 01.05.CB Trimboard Assembly - Door - Remove for Access & Refit).