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Wind noise

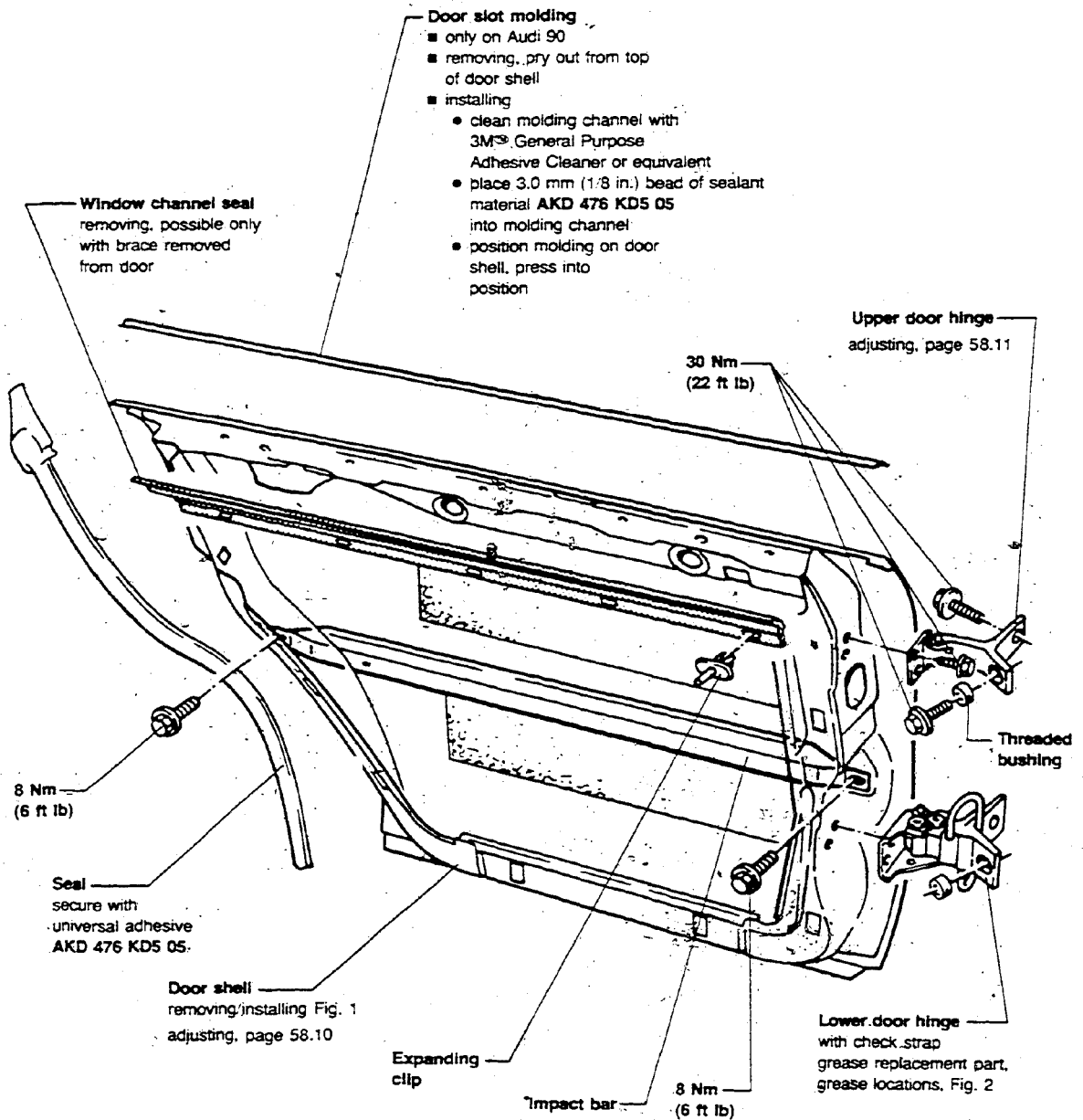
- eliminating 58.11

Window glass

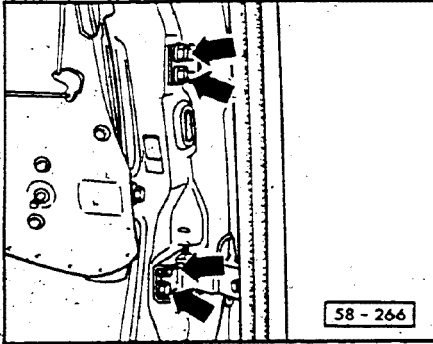
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Window regulator

- assembly 58.4



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► Fig. 1 Door shell removing/installing

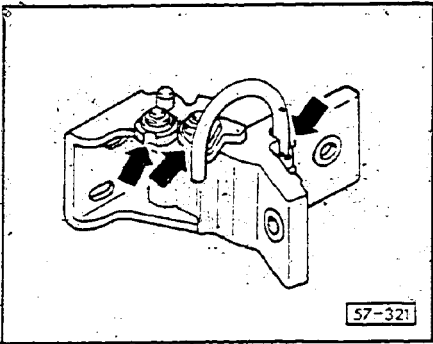
Removing

- unscrew hex head bolts (arrows)

Installing

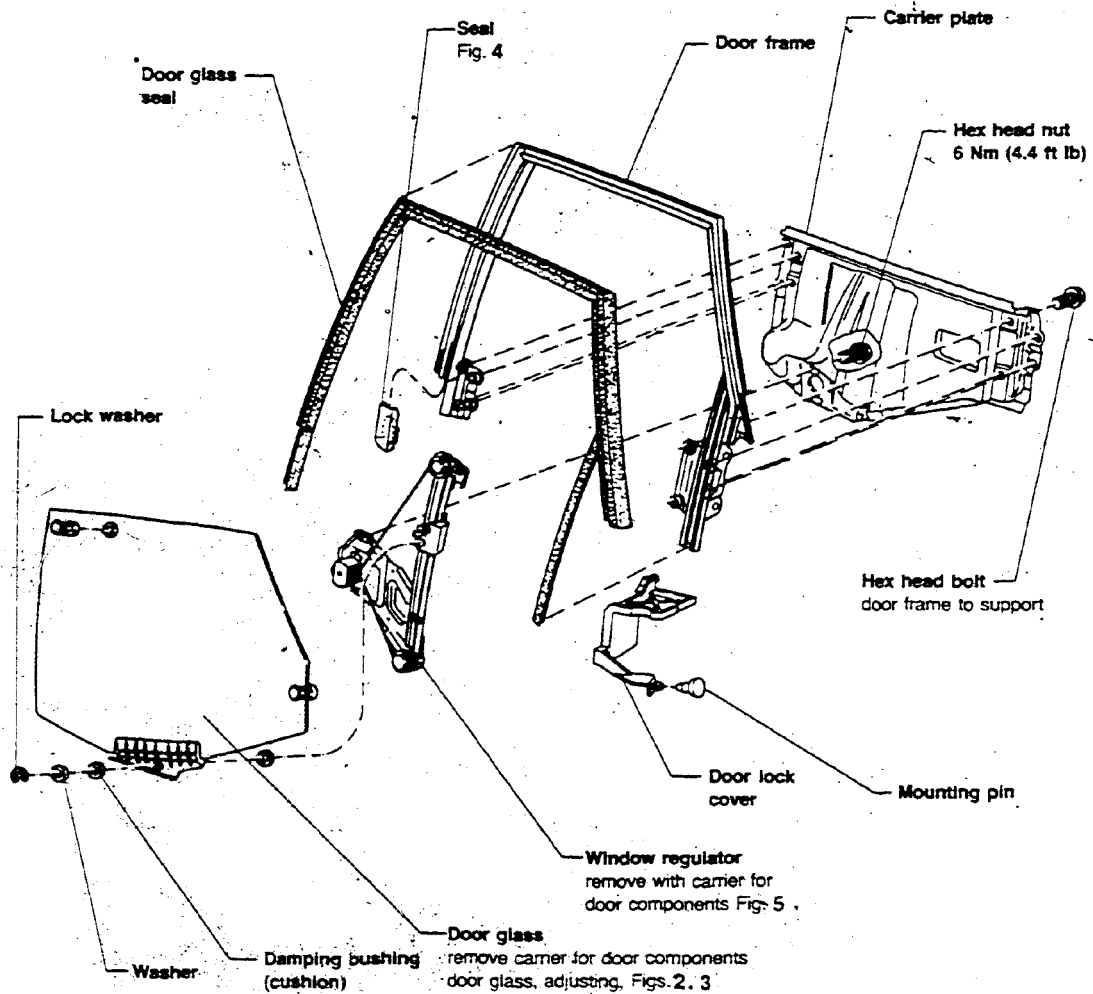
Install in reverse order, note the following

- adjust door to eliminate wind noises, see page 58.12
- check adjustment of carrier for door components, see page 58.12

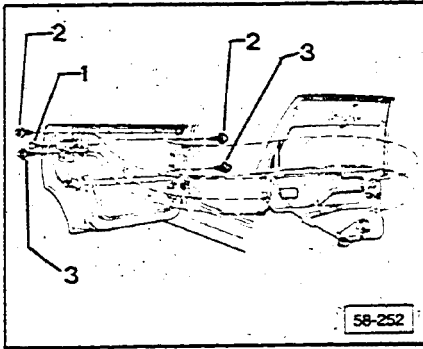


► Fig. 2 Lower door hinge, grease locations

Apply grease AOS 126 000.05 or equivalent as shown (arrows).



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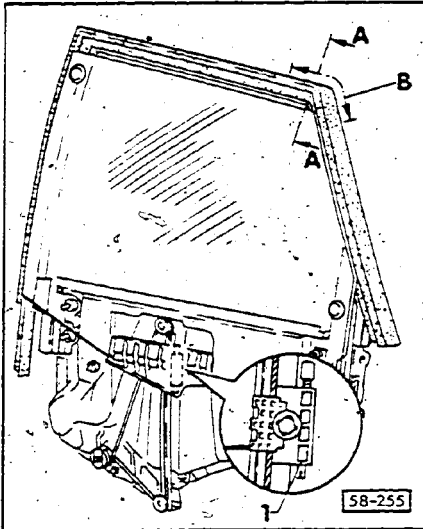
► Fig. 1 Rear door component carrier, removing/installing

Removing

- remove door trim panel, see Repair Group 70
- unhook cable for inner door release mechanism, Fig. 8
- unclip and remove cable from door carrier
- remove mounting pin 1, press covering for door lock forward
- remove hex head bolts 2, 3

Installing

- Install in reverse order, note following:
- torque hex heads bolts 20 Nm (15 ft lb)

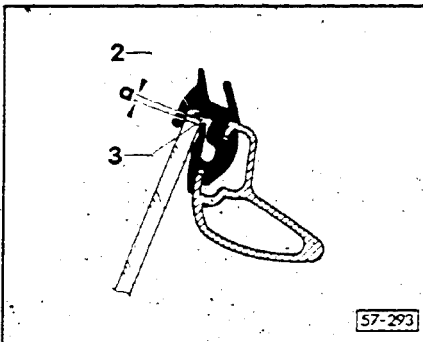


► Fig. 2 Glass, adjusting

A-A = cross section

B = area between roof and C-pillar

1 = adjustable stop for window regulator

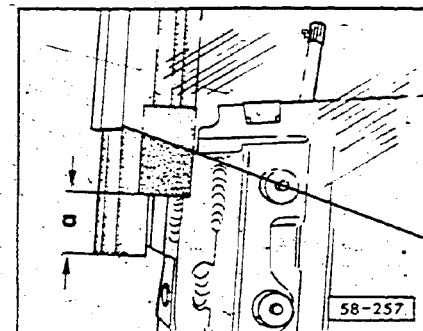


► Fig. 3

- adjust upper stop of window regulator so upper edge of the window 3 makes contact with the sealing lip 2 in the transition area B, Fig. 4
- a = 0 + 0.5 mm (approximately 1/32 in.)

Note

Sealing lip 2 must contact glass to stop leaks.

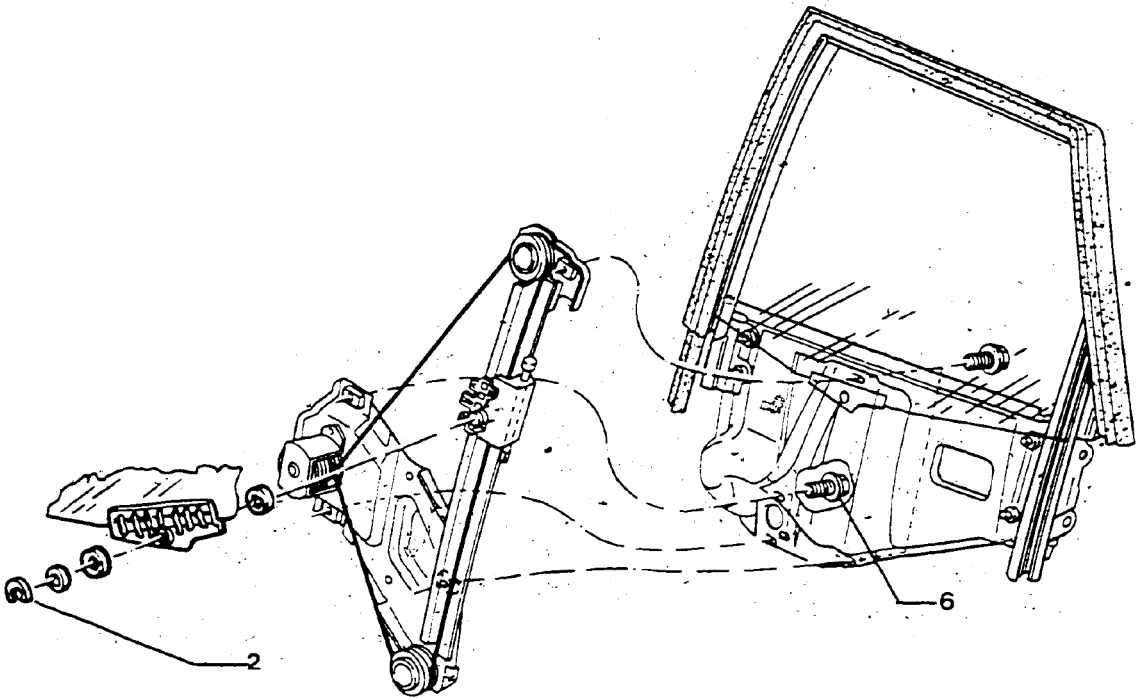


► Fig. 4 Seal plug

- insert into window channel
- a = 25 mm (1.0 in.)
- measured from end of window channel

Note

Plug is used to seal and prevent air noise.



► Fig. 5 Window regulator, removing/installing

Removing

- remove door component carrier, Fig. 1
- remove lock washer 2
- remove mounting washer and bushing
- remove window, window regulating bolts
- remove hex head bolts 6
- remove regulator hex head bolts in lower door

Installing

Install in reverse order, note following:

- torque hex bolts 6 Nm (4.4 ft lb)
- install bushing between window regulator and glass
- check and adjust alignment of window, adjusting, Figs. 3, 4

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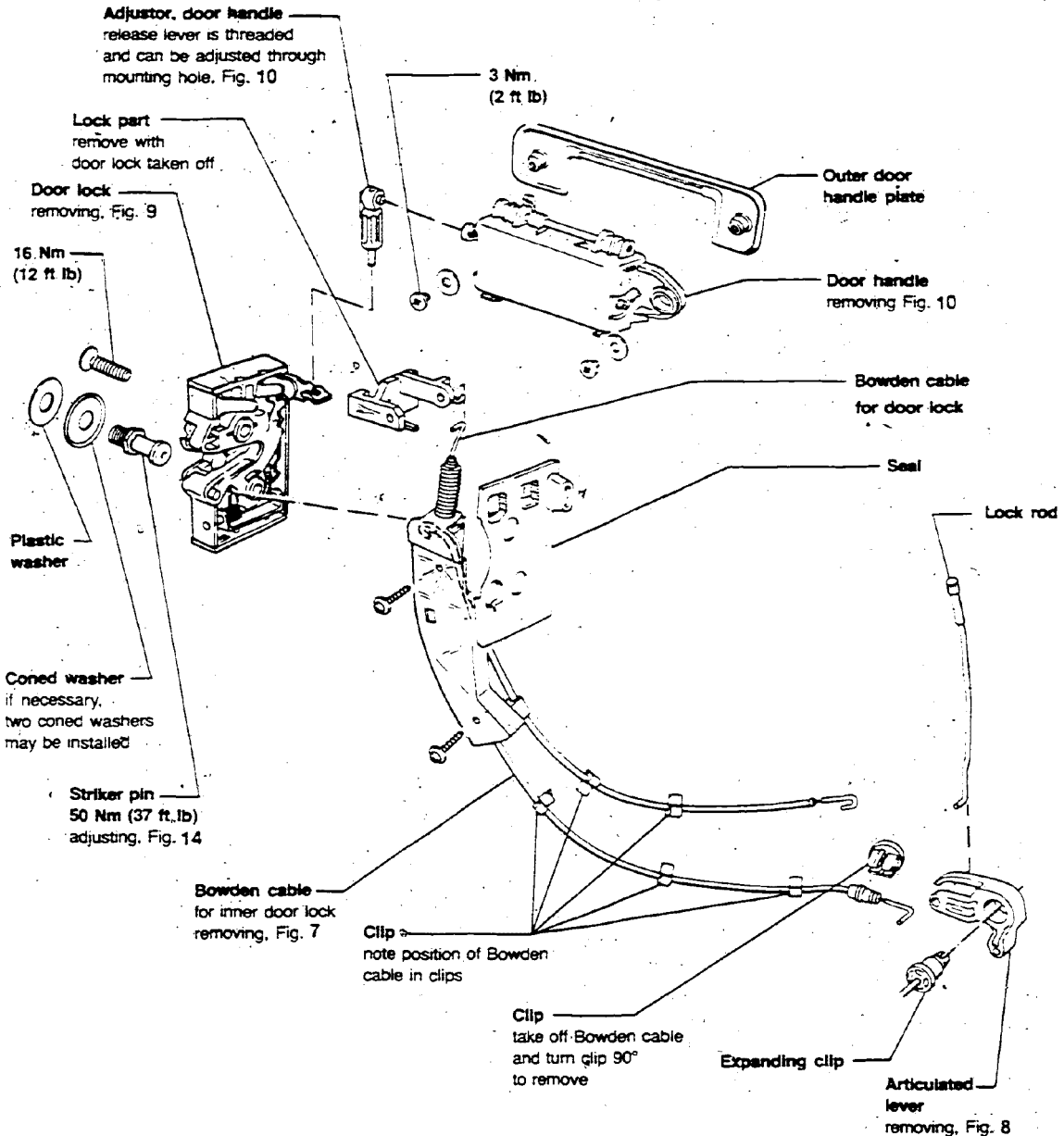
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Note

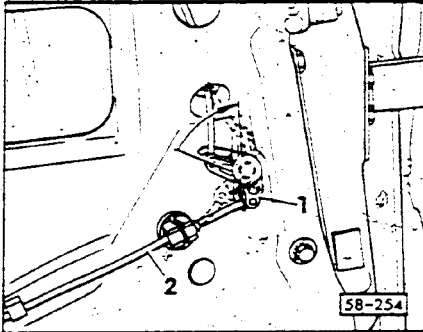
Turn adjustor part to adjust free play between door handle and door lock.

Release lever should not be forced when adjusting.

- maximum play between release lever and adjustor 0.5-1.0 mm (1/32-3/64 in.)

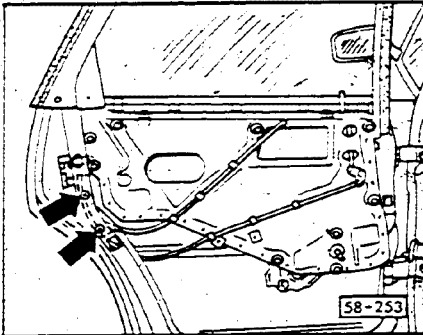


58-315



► Fig. 6 Removing Bowden cable for door lock from articulated lever

- unclip Bowden cable from clip
- turn articulated lever 1 approximately 45° in direction of arrow and remove Bowden cable 2



► Fig. 7 Bowden cable for inner door mechanism, door lock, removing/installing

Note

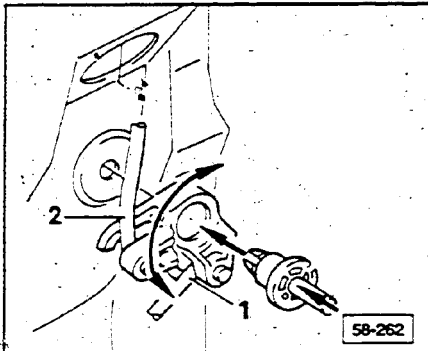
Bowden cables can be removed with mounting plate.

Removing

- remove door trim plate (see Repair Group 70)
- unclip Bowden cable
- remove door lock, Fig. 10
- unscrew mounting plate from Bowden cable
- pull out Bowden cable with lock part

Installing

Install in reverse order.



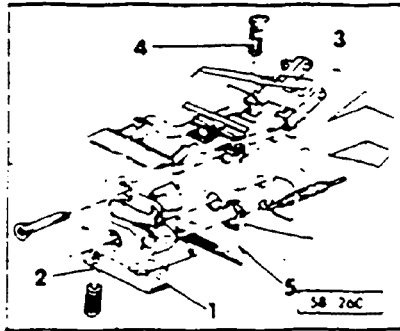
► Fig. 8 Articulated lever, removing/installing

Removing

- press pin from expanding clip
- swivel articulated lever in direction of arrow, detach Bowden cable 1 and securing rod 2

Installing

Install in reverse order.



► Fig. 9 Door lock, removing/installing

Removing

- remove door panel (see Repair Group 70)
- pivot lever 1 by pulling Bowden cable in direction of arrow and holding in position with screwdriver through hole 2
- unhook Bowden cable
- remove bolts
- pull door lock out of fastener 3, gasket 5

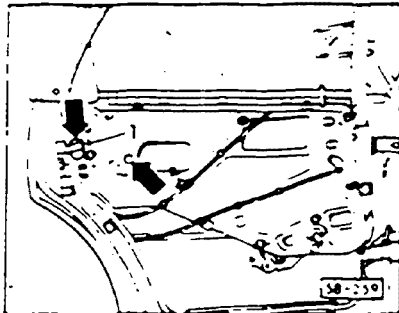
Installing

Install in reverse order, note following

- attach Bowden cable
- fit door lock into fastener
- align door handle to door lock
- adjust as required, page 58 10
- guide operating mechanism 4 into door lock operating lever

Note

This operation can be observed through the access hole, see Fig. 11



► Fig. 10 Door handle, removing/installing

Removing

- cam for door components installed
trim panel removed
- push fastener 1 downwards to lock door lock
- press bolts through access holes (arrows)
- take out door handle together with operating mechanism toward interior door

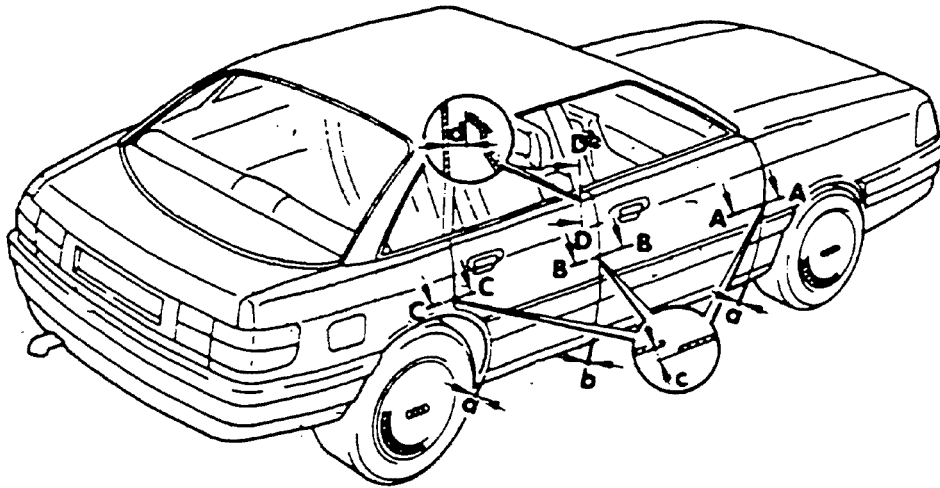
Installing

Install in reverse order, note the following

- first guide operating mechanism into door lock release lever

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► Doors adjusting

1 — Adjustment of door shell

A — gap width

Adjustment of doors with hinges,

Fig. 12

a = 5 ± 1 mm (13/64 – 3/64 in.)

b = 5.5 ± 1 mm (7/32 – 3/64 in.)

B — height adjustment

Adjustment of mounting hinges to B-pillar, see Fig. 12

C — to prevent wind noises,

adjust using slots in the mounting hinges and at back doors at smoker. Figs. 13

Section A-A, B-B, C-C:

C = 0.5 ± 0.5 mm (1/64 – 1/64 in.)

Section D-D:

d = 14.5 mm (9/16 in.)

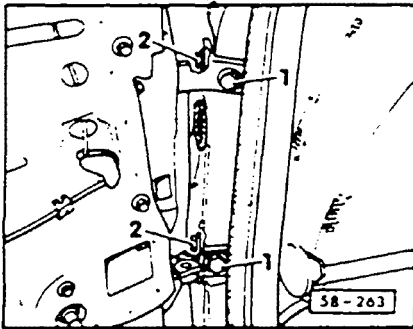
2 — Adjusting carrier for door components

A — height adjustment

Adjust displacement of carrier in door shell upwards or downwards, Figs. 15 16

B — seal

Adjust carrier towards center of vehicle (screw upper carrier bolts loosely), Fig. 16

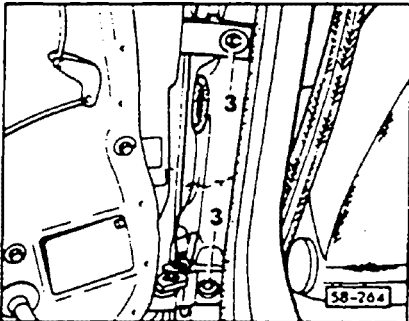


► Fig. 11 Door gap, adjusting

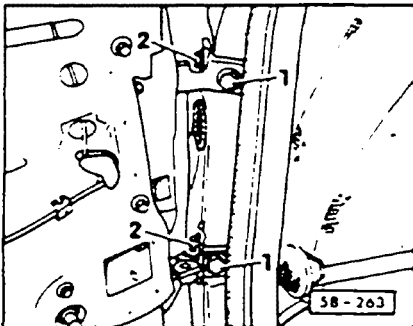
- with bolts 1 removed, screw out threaded bushing until it no longer makes contact with B-pillar
- loosen bolts 2, close door and adjust gap by moving the door
 $a = 5 - 1 \text{ mm } (13/64 - 3/64 \text{ in.})$
- open door, tighten bolt 2 to 30 Nm

Note

Loosen or tighten with US 2598.



- screw in threaded bushings 3 until they make contact with B-pillar
- screw in bolts, tighten to 30 Nm (22 ft lb)
- check gap



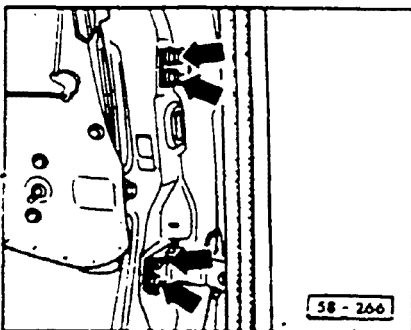
► Fig. 12 Door height, adjusting

- loosen bolts 1 and 2

Note

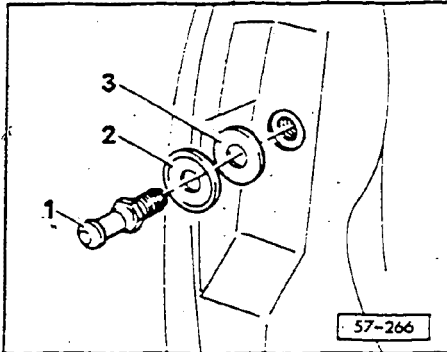
Loosen or tighten with US 2598.

- move door with hinges in the extra large holes
- tighten bolts to 30 Nm (22 ft lb)



► Fig. 13 Wind noise, eliminating

- loosen front door bolts (arrows), move door in hinge slots, see page 58.15
 - dimension between door shell and B-pillar
 $d = 14.5 \text{ mm } (9/16 \text{ in.})$
- tighten bolts to 30 Nm (22 ft lb)



► Fig. 14 Rear door, elimination of wind noise

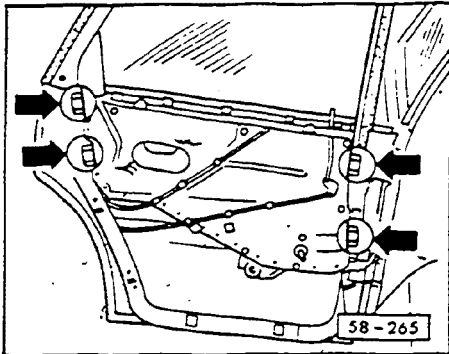
Adjustment of striker pin will eliminate noise at rear of door.

- adjust striker pin
 - 50 Nm (37 ft lb)

- 1 = striker plate
- 2 = dished washer

Note

If necessary, two dished washers can be used.

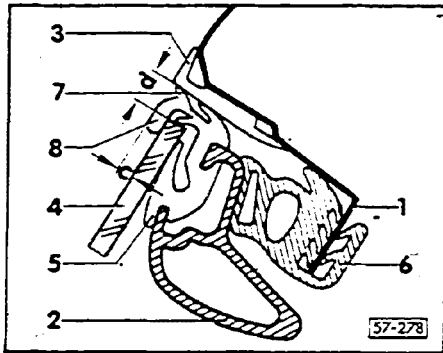


► Fig. 15 Adjusting carrier for door components

Note

Window and door shell must also be adjusted.

- loosen bolts
- close door
- press carrier for door components against roof and pillar
- use helper to tighten first upper then lower bolts
 - 20 Nm (15 ft lb)
- ensure carrier is installed with more pressure on top
 - do **NOT** press in door shell
- check all dimensions



► Fig. 16 Door component carrier, dimensions

• left door cross section shown

- the outer sealing lip 7 must make contact along the edge of the pillar and roof trim molding 3
- the outer window sealing lip 8 must not project outwards above the roof trim molding 3

c = 3.5 ± 1 mm (9/64 ± 3/64 in.)

d = 8.1 ± 1 mm (5/16 ± 3/64 in.)

- 1 = sealing flange
- 2 = door frame
- 3 = roof trim molding
- 4 = window
- 5 = window seal
- 6 = inner door seal
- 7 = weatherstrip
- 8 = weatherstrip on window