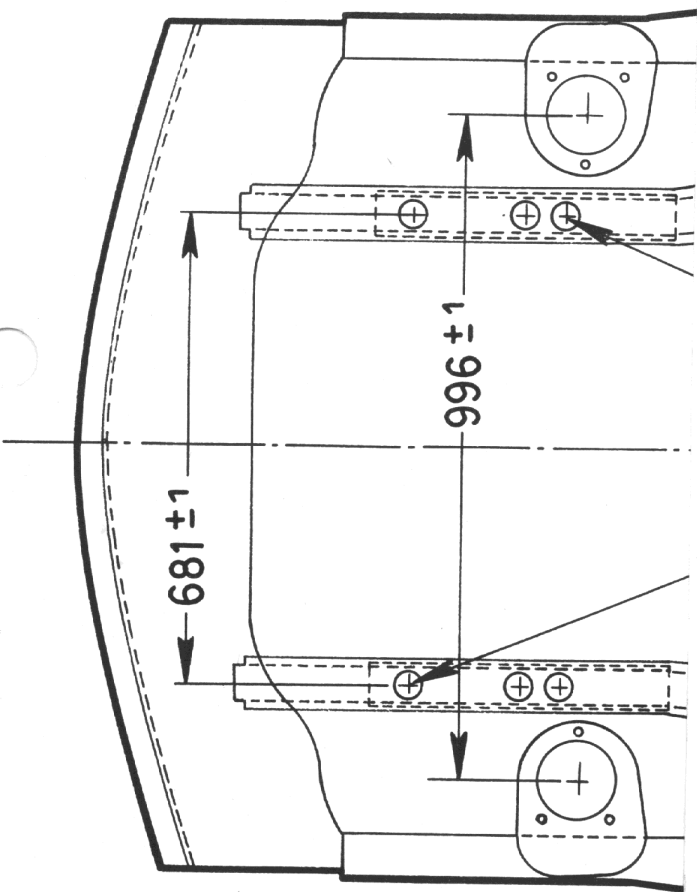
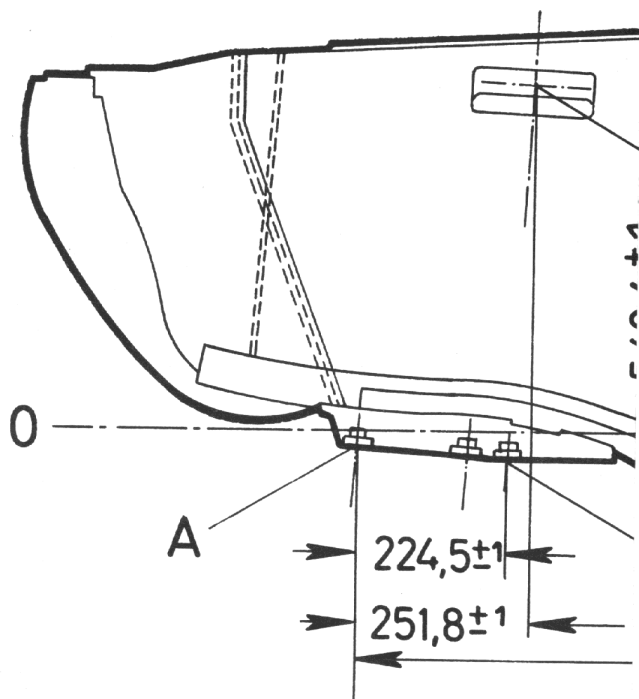


# 41 Bodywork

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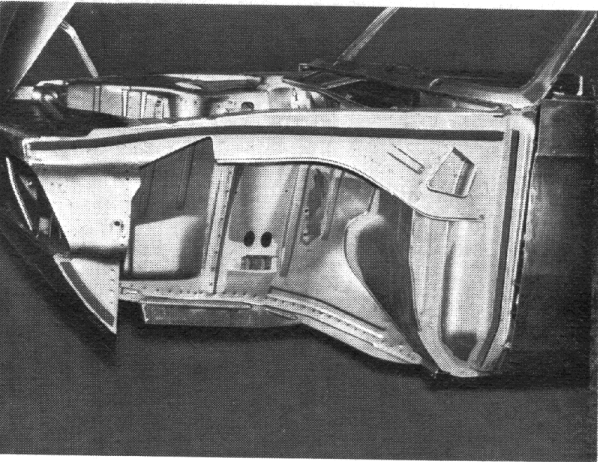


## Specifications

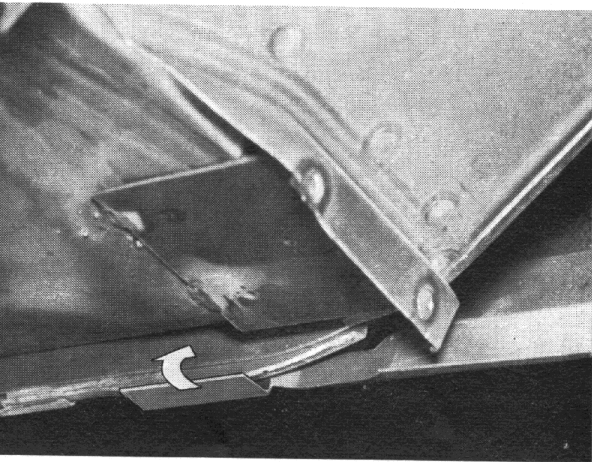
### Body

Model	1502	1602	1802	2002	2002 A	2002 Ti	2002 tii
Length			4230 (4110) <sup>1)</sup>	(166.5 (161.8) <sup>1)</sup> )			
Width			1590 (102.0)				
Height (unladen)			1410 <sup>6)</sup>	(1380) <sup>1)</sup>	(55.5 <sup>6)</sup>	(54.3 <sup>1)</sup> )	
Ground clearance (laden)			160 (6.3)				
Front overhang			720 (28.3)				
Rear overhang			1010 (850) <sup>1)</sup>	(39.8 (33.5) <sup>1)</sup> )			
Vehicle weight, empty (ready for road, tank full)	980 (2161)	990 <sup>8)</sup> (2183) <sup>8)</sup> 1030 <sup>1)</sup> (2270) <sup>1)</sup>	1000 <sup>17)</sup> (2205) <sup>17)</sup> 1030 <sup>1)</sup> (2270) <sup>1)</sup>	1010 <sup>7)</sup> (2226) <sup>7)</sup> 1030 <sup>1)</sup> (2270) <sup>1)</sup>	(2226) <sup>7)</sup> (2270) <sup>1)</sup>	940 (2072)	1040 <sup>12)</sup> (2293) <sup>12)</sup> 1030 <sup>1)</sup> (2270) <sup>1)</sup>
Permissible gross (all-up) weight	1380 (3042)	1390 <sup>9)</sup> (3065) <sup>9)</sup> 1450 <sup>1)</sup> (3196) <sup>1)</sup>	1400 <sup>18)</sup> (3086) <sup>18)</sup> 1450 <sup>1)</sup> (3196) <sup>1)</sup>	1400 <sup>9)</sup> (3086) <sup>9)</sup> 1450 <sup>1)</sup> (3196) <sup>1)</sup>	(3086) <sup>9)</sup> (3196) <sup>1)</sup>	1350 (2976)	1440 <sup>13)</sup> (3175) <sup>13)</sup> 1450 <sup>1)</sup> (3196) <sup>1)</sup>
Permissible front axle load	670 (1477)	700 <sup>10)</sup> (1543) <sup>10)</sup> 700 <sup>1)</sup> (1543) <sup>1)</sup>	700 <sup>19)</sup> (1543) <sup>19)</sup> 700 <sup>1)</sup> (1543) <sup>1)</sup>	700 <sup>10)</sup> (1543) <sup>10)</sup> 700 <sup>1)</sup> (1543) <sup>1)</sup>	(1543) <sup>10)</sup> (1543) <sup>1)</sup>	650 (1433)	700 <sup>14)</sup> (1543) <sup>14)</sup> 700 <sup>1)</sup> (1543) <sup>1)</sup>
Permissible rear axle load	740 (1631)	780 <sup>11)</sup> (1720) <sup>11)</sup> 780 <sup>1)</sup> (1720) <sup>1)</sup>	780 <sup>20)</sup> (1720) <sup>20)</sup> 780 <sup>1)</sup> (1720) <sup>1)</sup>	780 <sup>11)</sup> (1720) <sup>11)</sup> 780 <sup>1)</sup> (1720) <sup>1)</sup>	(1720) <sup>11)</sup> (1720) <sup>1)</sup>	720 (1587)	780 <sup>15)</sup> (1720) <sup>15)</sup> 780 <sup>1)</sup> (1720) <sup>1)</sup>
Permissible trailer load			500 (1102)				
– unbraked							
– braked	600 <sup>16)</sup> (1323) <sup>16)</sup>	1200 <sup>2)</sup> (2648) <sup>2)</sup> 1000 <sup>1)</sup> (2205) <sup>1)</sup>			800 <sup>5)</sup> (1764) <sup>5)</sup>	1200 <sup>2)</sup> (2648) <sup>2)</sup> 1000 <sup>1)</sup> (2205) <sup>1)</sup>	
Roof load			75 <sup>3/4)</sup> (165) <sup>3/4)</sup>				
Towbar downthrust			50 <sup>4)</sup> (110) <sup>4)</sup>				

- 1) Figures applicable to BMW touring models  
2) 500 kg (1102 lb) on BMW 1600 Convertible, 2002 Convertible and 2002 Convertible with Roll Bar models – Permissible braked trailer load may be increased to max. 750 kg (1653 lb) – Does not apply to Convertible models  
3) Does not apply to Convertible models  
4) Permissible towbar and roof loads must not lead to the permissible axle loads being exceeded when the car is fully laden  
5) If transmission oil cooler is installed, permissible braked trailer load can be increased to max. 1200 kg (2648 lb) on 2002 A and 1000 kg (2205 lb) on touring 2002 A  
6) 1360 mm (53.5 in) on BMW Convertible models  
7) 990 kg (2183 lb) on BMW Convertible models  
8) Previously 940/970/990 kg (2072/2138/2183 lb)  
9) Previously 1340/1370/1390 kg (2954/3021/3065 lb)  
10) Previously 650/670 kg (1433/1477 lb)  
11) Previously 720/740 kg (1587/1631 lb)  
12) Previously 990/1010 kg (2183/2226 lb)  
13) Previously 1390/1410 kg (3065/3108 lb)  
14) Previously 670 kg (1477 lb)  
15) Previously 750 kg (1653 lb)  
16) 1200 kg (2646 lb) at max. 12 % (1 in 8.3) gradient  
17) Previously 990 kg (2183 lb)  
18) Previously 1390 kg (3065 lb)  
19) Previously 670 kg (1477 lb)  
20) Previously 740 kg (1631 lb)



Apply Terostat tape.  
Fit side panel.

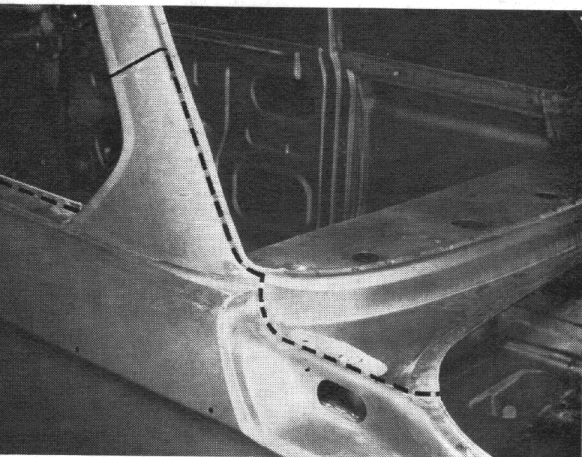


Bend over edges of the panel after fixing the side panel.



#### **41 35 281 Rear side panel – renewing (partial replacement)**

Remove luggage compartment lid – 41 62 000.  
Separate the forward edge of the side panel and roof pillar  
and also for 10 cm (4 in) (A) above the corner of the side  
window.



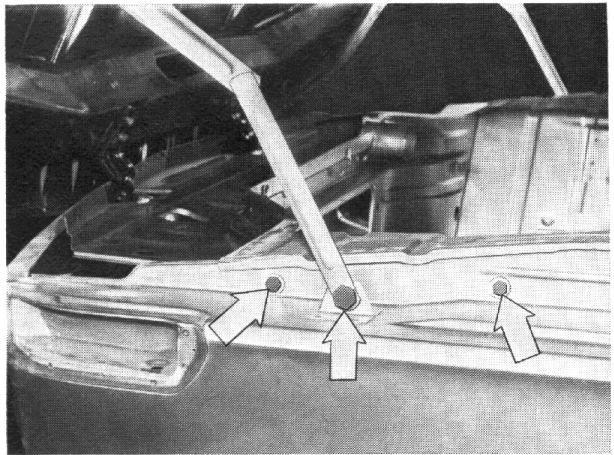
Separate roof pillar at the rear swaged edge and past the  
ventilation opening as far as the luggage compartment  
cutout.





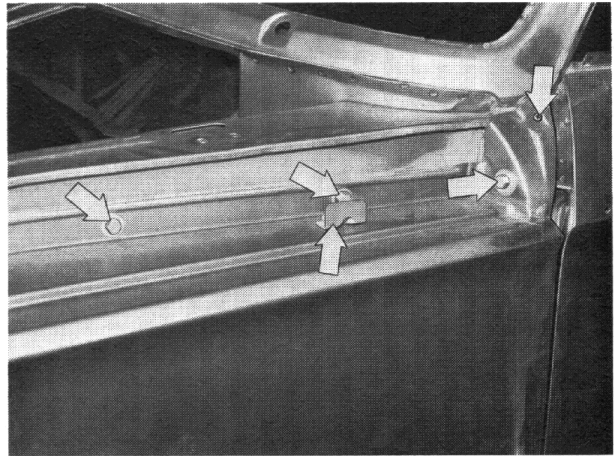
## 41 35 001 Front side panel – renewing

Remove bolts from the top of the wheel housing and from the bonnet (hood) supports.

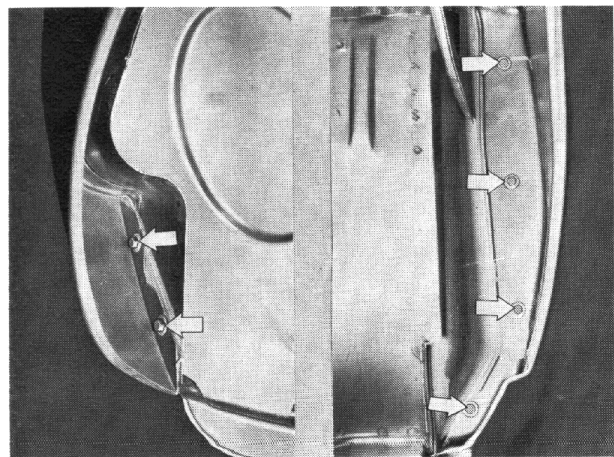


Loosen side panel at rear.  
Transfer old stop plate to new panel.

**When installing:** Bore hole for Phillips screw.

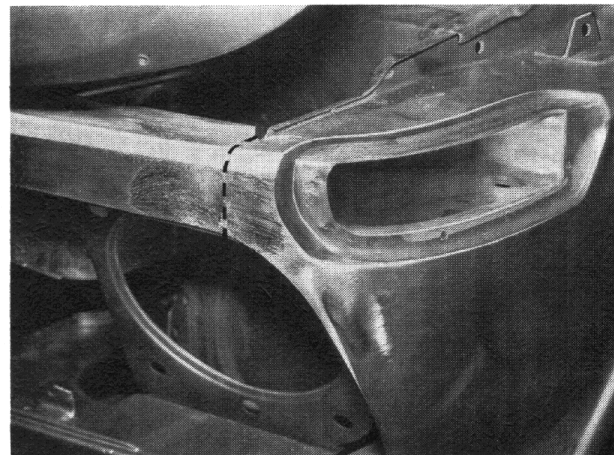


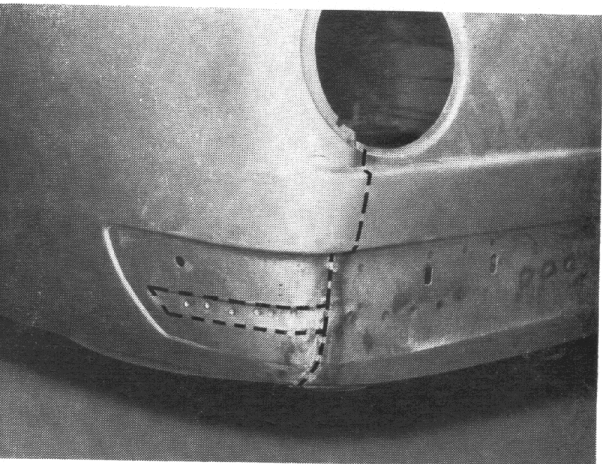
Detach side panel at front and rear.



Remove tinning.  
Break tack welds.  
Remove side panel.

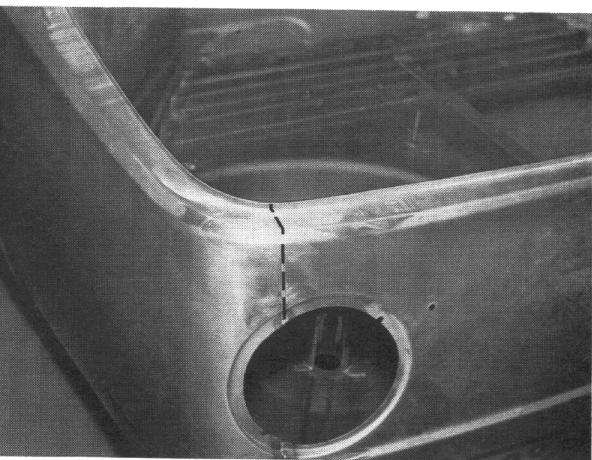
**When installing:** Tin overlap.





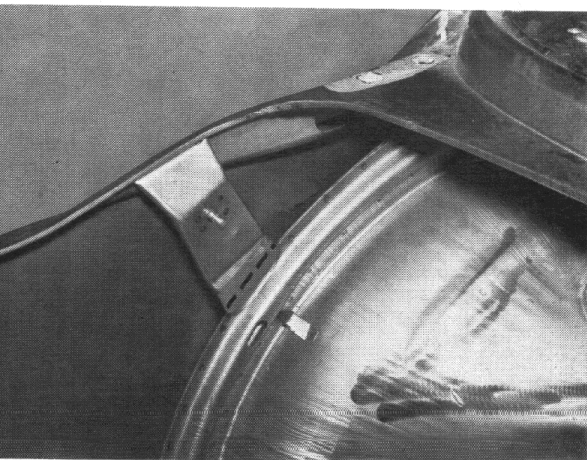
Separate the side panel from the body tail panel and also from the base of the luggage compartment along the line of spot welds.

After removing the side panel, remove cleanly any strips of metal which remain.



Remove tinning from the connecting points between the side panel and tail panel.

Separate these parts along the weld which in thus revealed.



Separate supports from wheel housing.

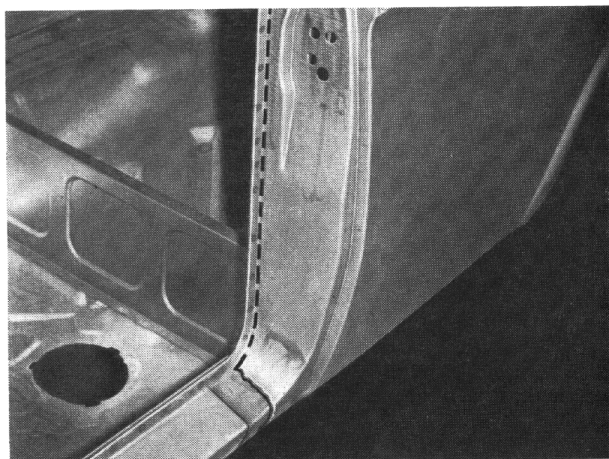


Separate the door pillar to height  $B = 5 \text{ cm (2 in.)}$  as far as the lock plate and along the dotted line as far as the sill.

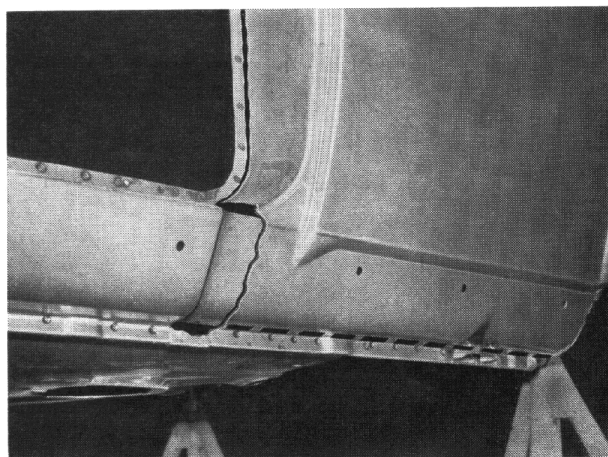
**When installing:** Transfer door lock striker, attach threaded plate.



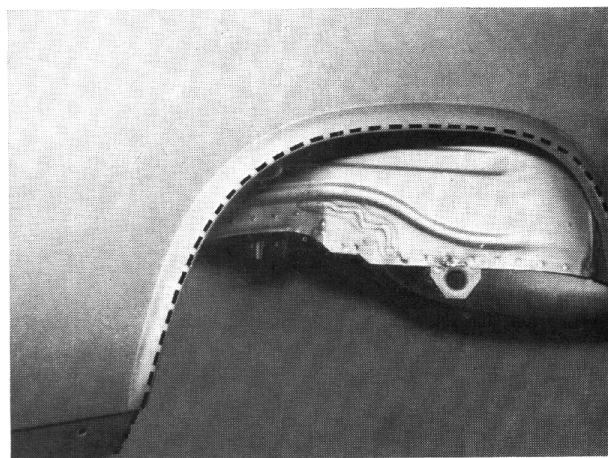
**Caution:** The side panel overlaps the sill cover. Carefull remove the side panel without damaging the step cover.

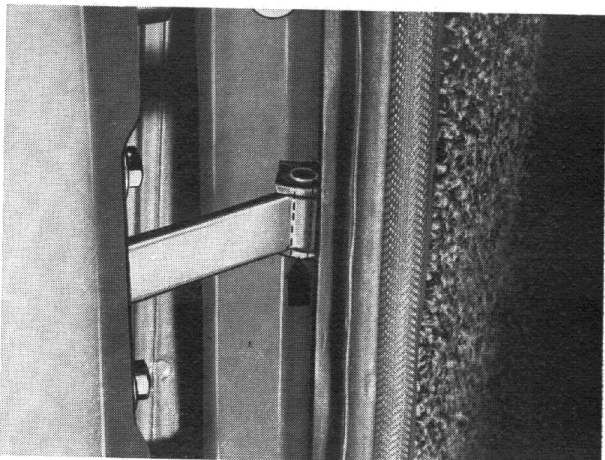


Separate the side panel along the dotted line as far as the wheel housing.



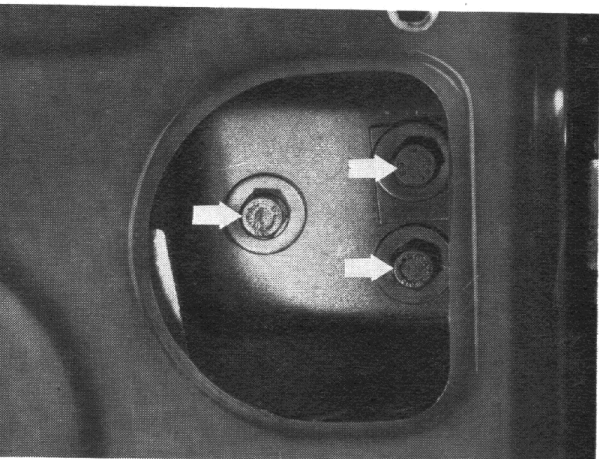
Separate the side panel at a line through the highest points along the wheel housing section.



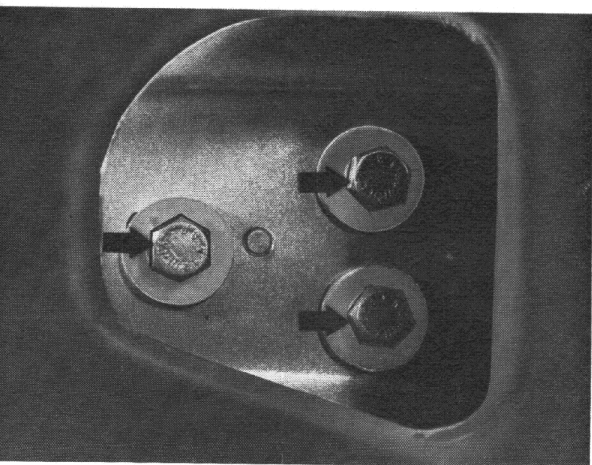


## 41 51 080 Door – removing and fitting

Remove (install) door panel – 51 41 000.  
Remove Acella sheet as necessary.  
Drive out the pin for the door keeper.

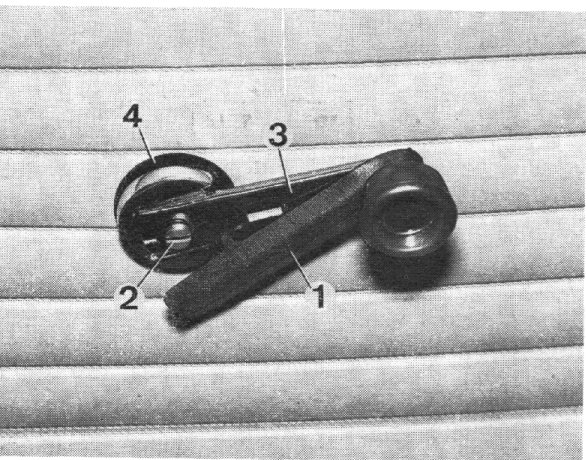


Half open the door window.  
Mark position of hinge and dismantle the door from the upper hinge.



Mark the position of the hinge and loosen the lower hinge fixing bolt.

**When installing:** Adjust the door – 41 51 034.



## 41 51 101 Door – renewing

Detach window crank trim (1).  
Remove screw (2).  
Detach crank (3) with escutcheon (4).

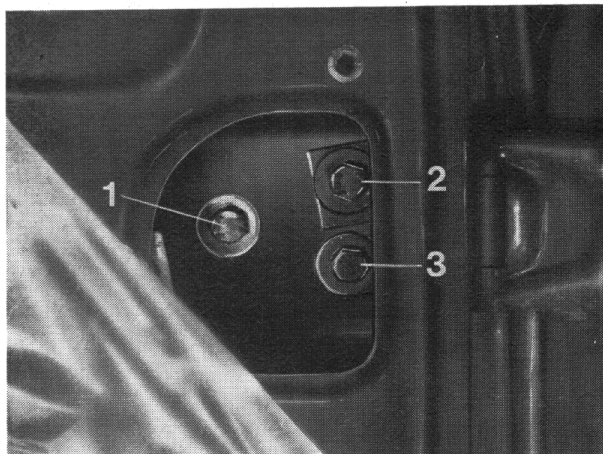
**When installing:** Window crank must face forwards when window is closed.



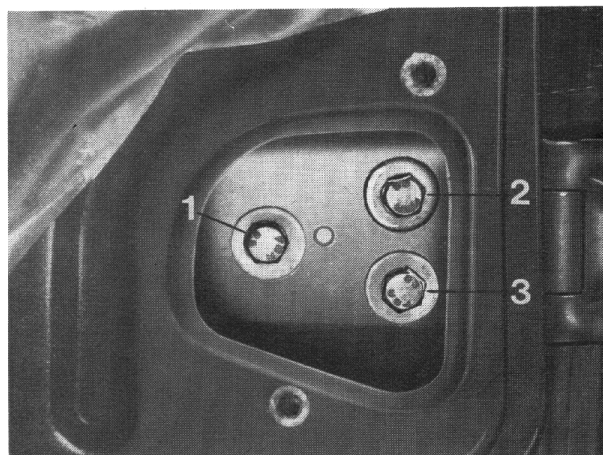


## 41 51 034 Door – adjusting

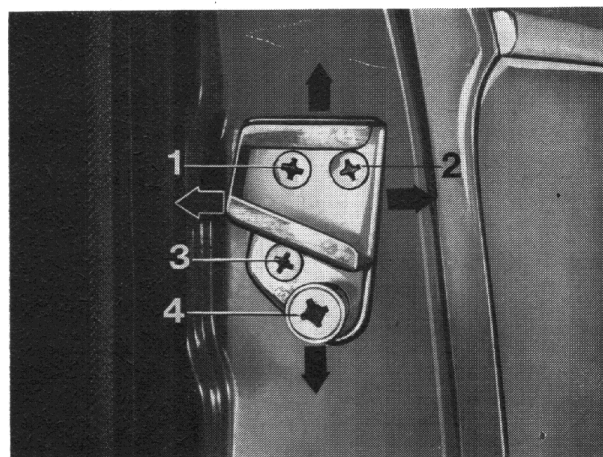
Remove (install) door panel – 51 41 000.  
Remove Acella sheet to the necessary extent.  
Half open the door window and loosen the upper hinge fixing bolts (1 – 3).



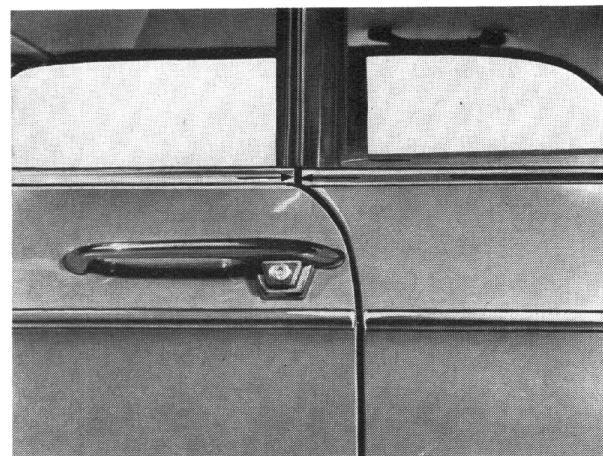
Loosen the lower hinge fixing bolts (1 – 3) and adjust the door forwards or backwards.

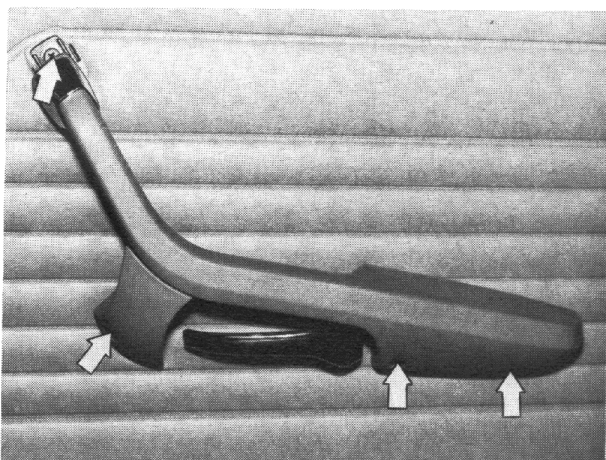


Loosen fixing bolts (1 – 4) and adjust door lock striker accordingly.

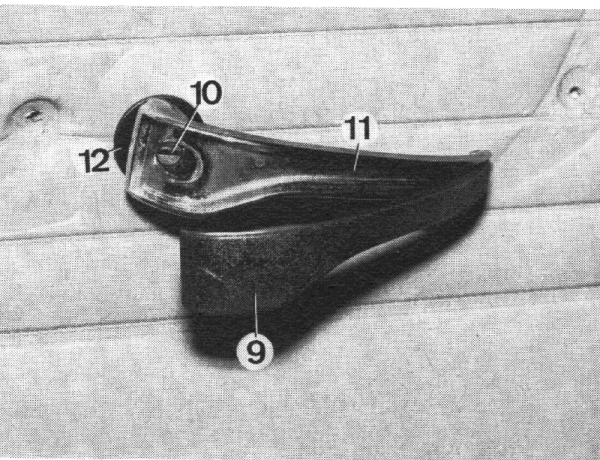


**Note:** When correctly fitted, the door must be flush with the side panel. If necessary, adjust door window glass – 51 32 154.

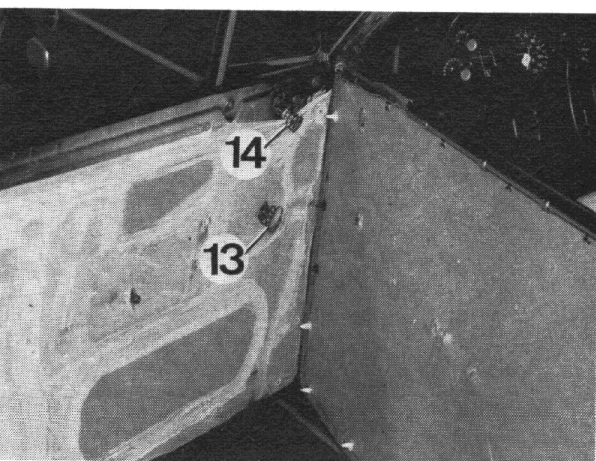




On right:  
Detach the armrest.

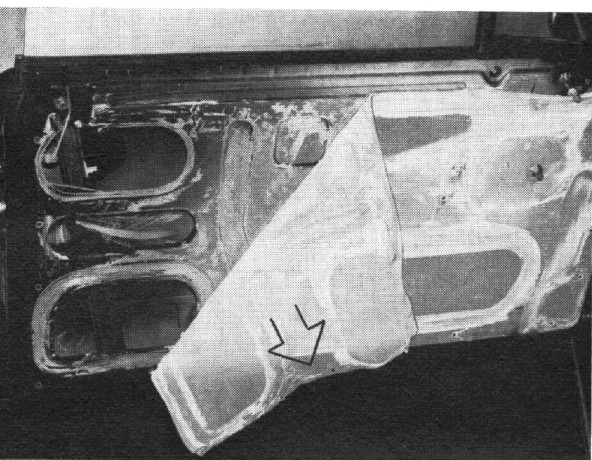


Pull out the trim material (9). Remove the inside door handle (11) and bezel (12) after taking out the retaining screw (10).



Pull out the door trim panel clips, press the door trim upwards and remove.  
Remove springs (13 + 14).

**When installing:** The spring (13) should have the larger windings towards the door trim.

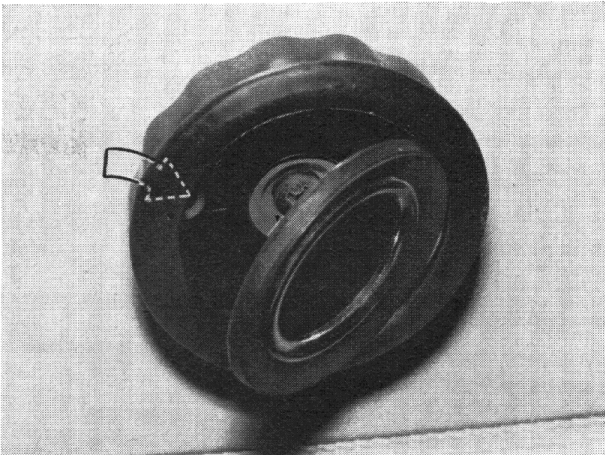


Carefully take off the "Acella" sheet.

**When installing:** Do not re-use "Acella" sheet if damaged.

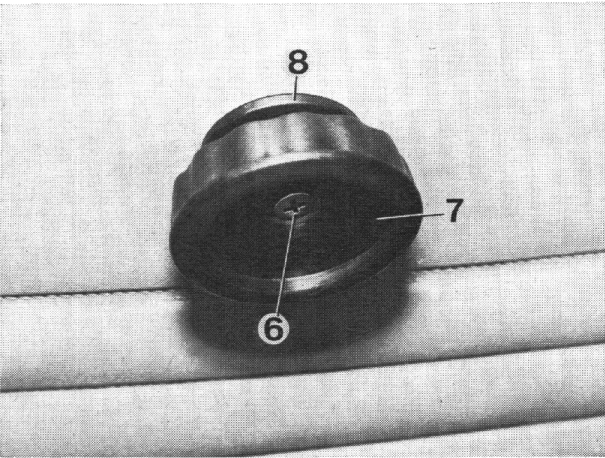


With a piece of bent steel wire, a small Allen key or similar tool, lift out the cover (5) at the mark, working from the rear.

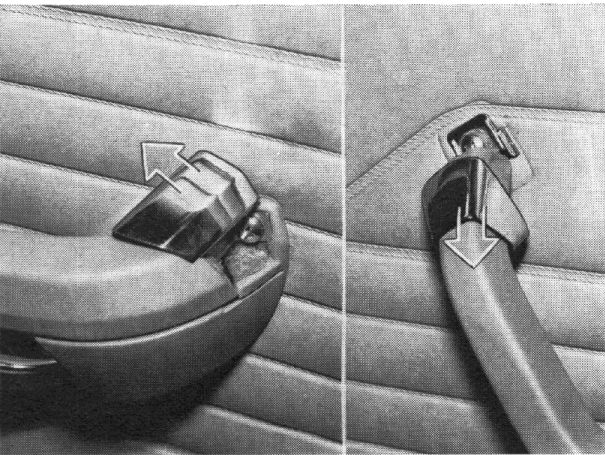


Loosen and remove screw (6).  
Take off the handwheel (7) and bezel (8).

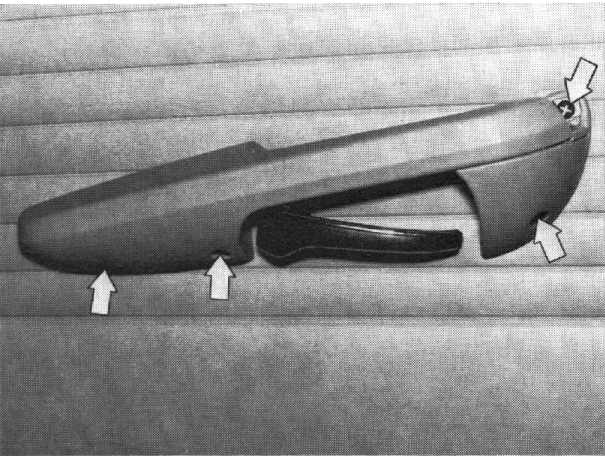
**When installing:** Cutouts on handwheel must engage correctly.

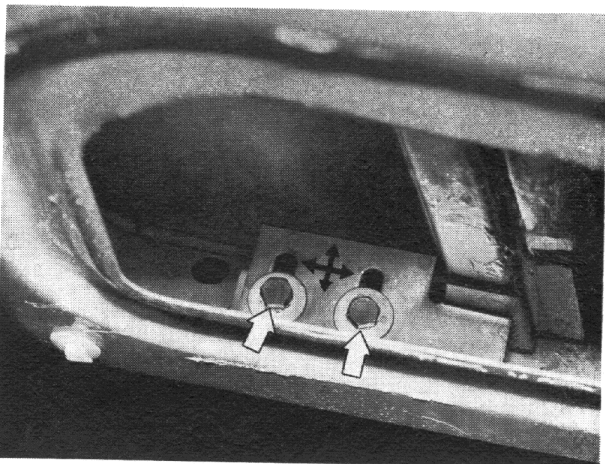


Lift off the cover trim at the left armrest with a screwdriver, and push back the trim on the right armrest.



On left:  
Take off the armrest.



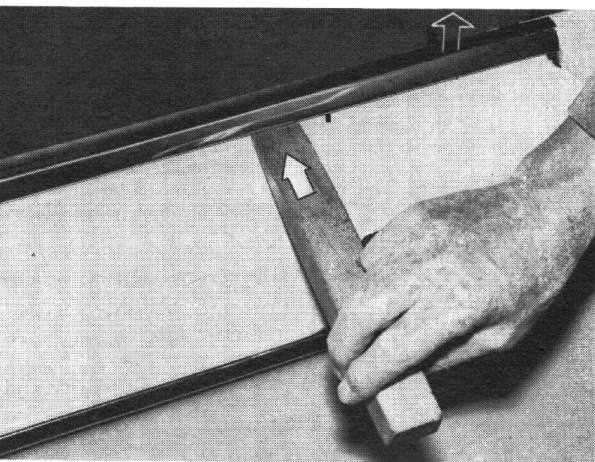


Detach the lower rear window guide rail and remove.

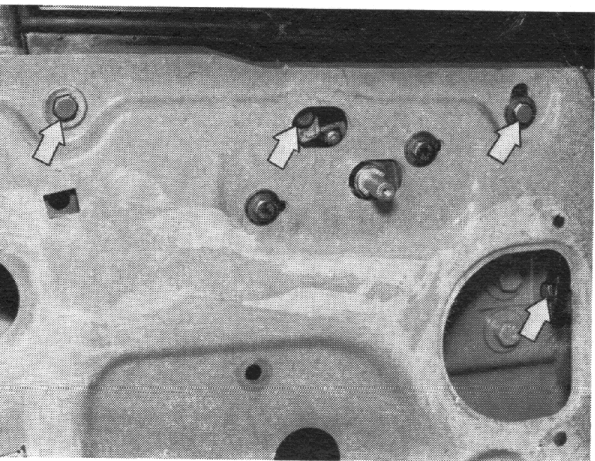
**When installing:** Grease the window guide.

With the side window wound down, align the guide rail until free from play.

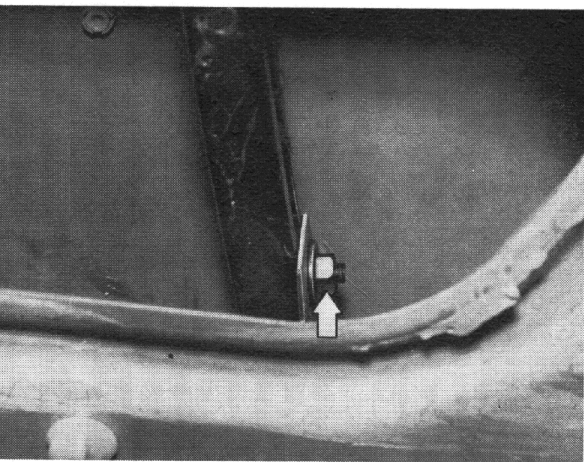
With the window closed, use the window guide rail to align the glass in the correct angled position at the top rubber seal.



Drive up the window aperture cover with a wooden wedge or similar tool, and remove.



Loosen the vent window clamp bolt and the window frame attachment bolts.

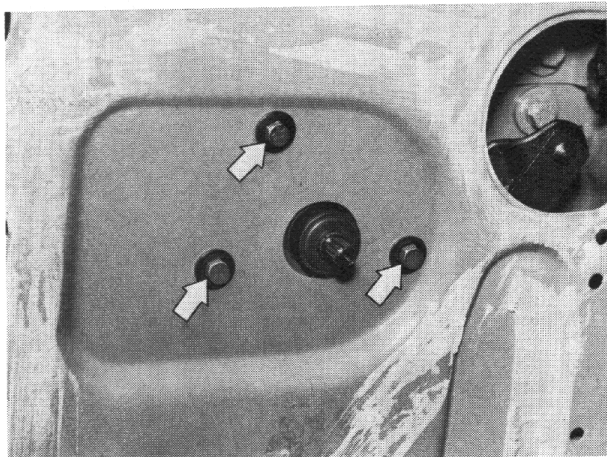


Loosen the window guide rail attachment bolt. Pull the window frame up and remove.



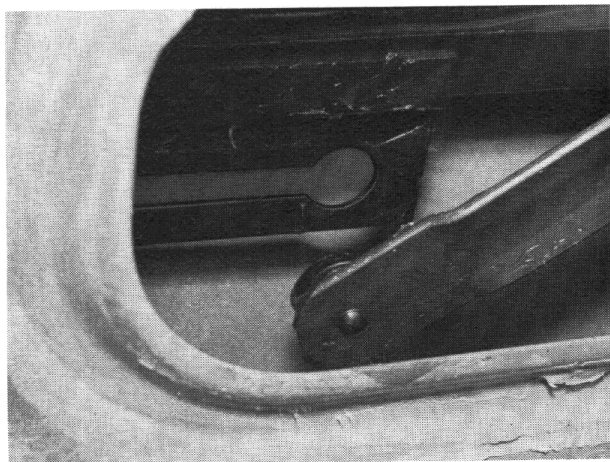


Remove the bolts holding the window crank assembly.



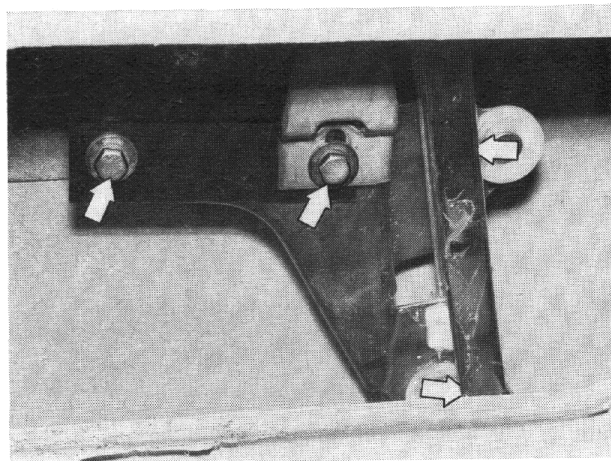
Detach the crank assembly from the door window glass, and remove.

**When installing:** Grease the crank assembly and the rail on the glass.



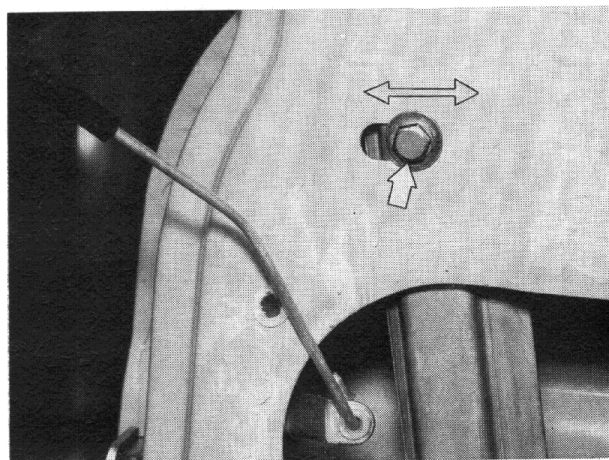
Loosen the glass holder retaining bolt. Take out the glass holder and the stop angle.

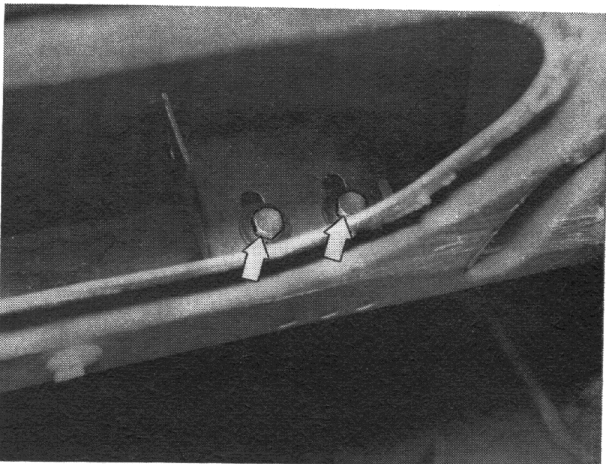
**When installing:** Adjust the glass holder until both guide rollers are in contact with the guide rail. Adjust the stop angle so that the glass makes even contact with the rubber seal at the top when closed. Grease the guide and rollers.



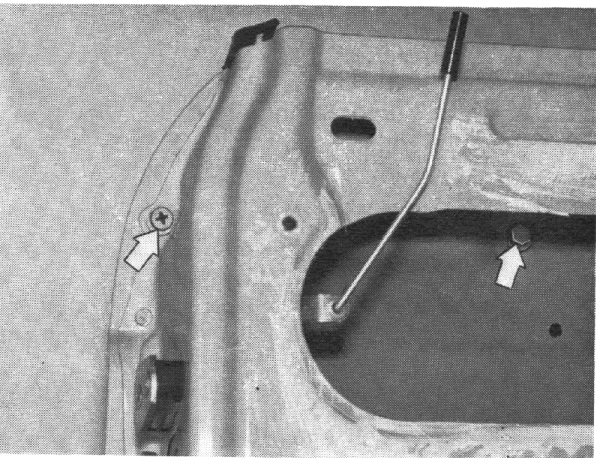
Detach the rear top window guide rail.

**When installing:** Wind up the window and align the guide rail until no play is present.



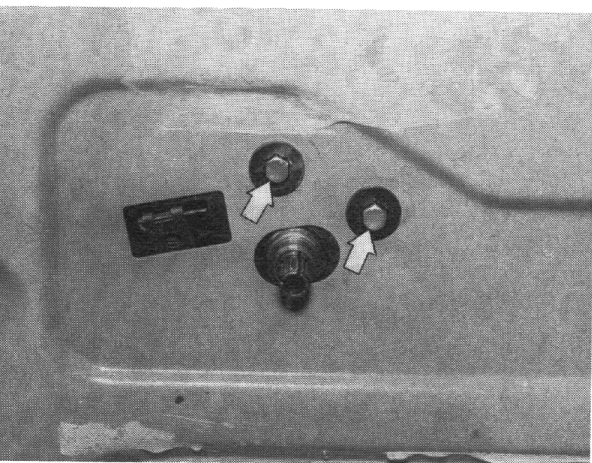


Remove the attachment bracket for the front window guide rail.

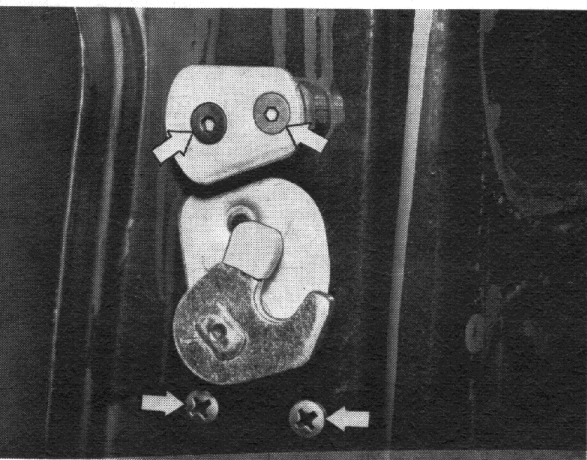


Loosen the bolts holding the outside door handle.

**Warning:** Wide face of underlay pad faces down. Take off the door handle with seals.



Remove remote door operating mechanism.

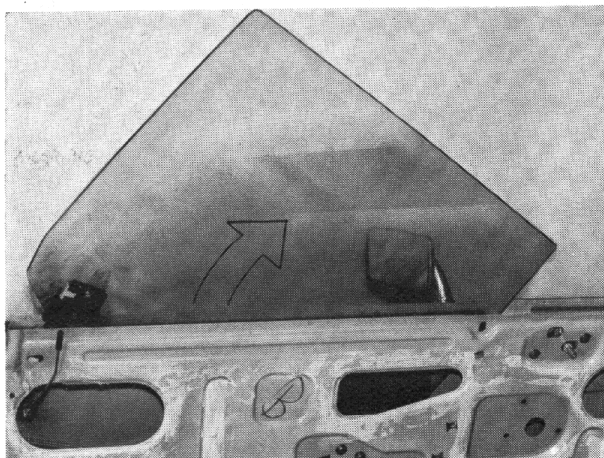


Remove bolts holding door lock.

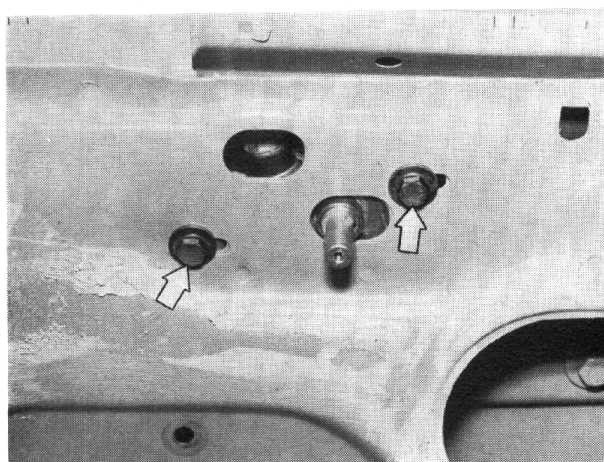
Take out the door lock and remote operating mechanism.



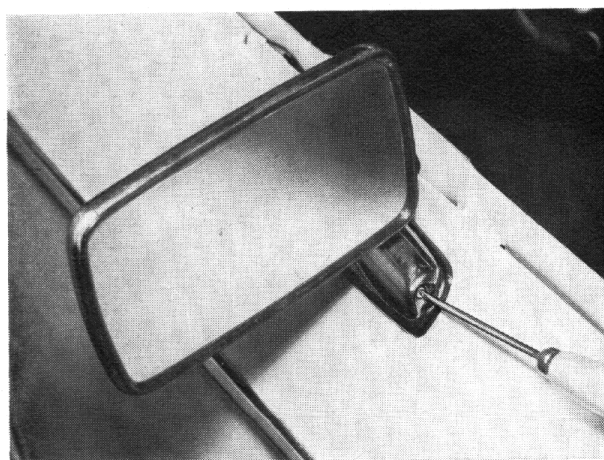
Remove the window glass upwards.



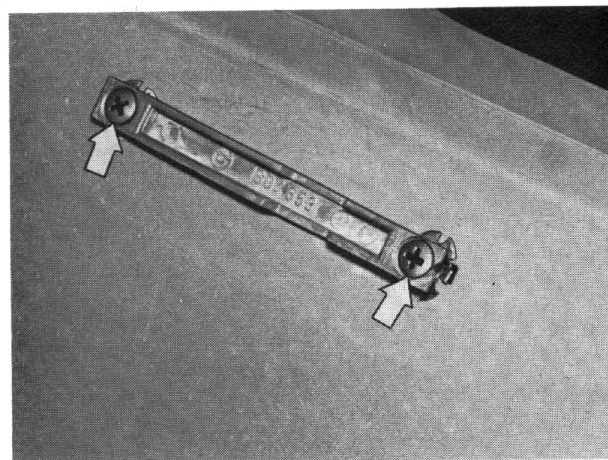
Remove the vent window worm drive.

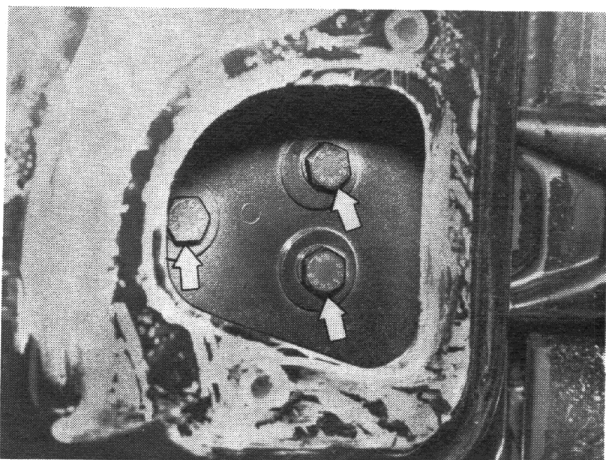


Loosen the outside mirror clamp bolt and take off the mirror with its backing seal.



Detach the mirror mounting.



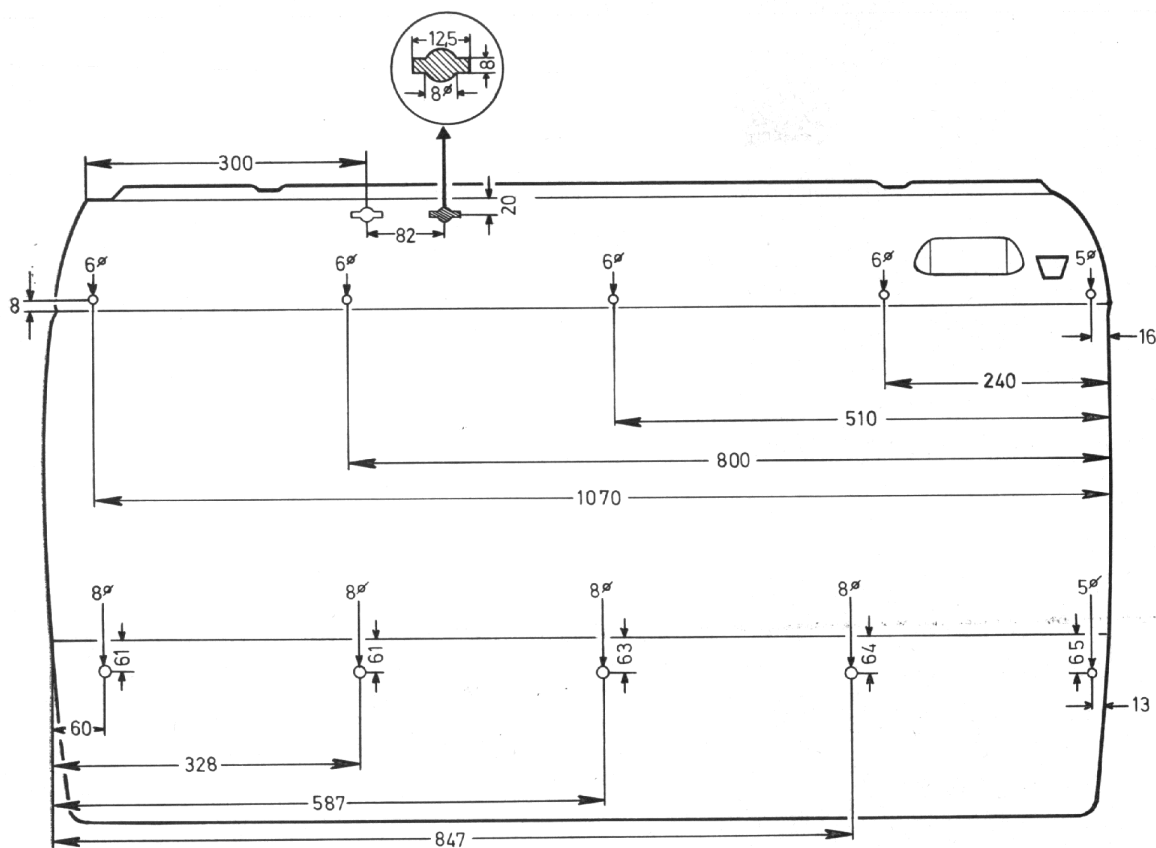


Loosen the lower door hinge bolts.  
Transfer all sheet-metal nuts, plastic nuts and retaining clips to the new door, or renew as necessary.



**When installing:** Fit the door by moving the hinges so that gap (A) is the same at front and rear.  
Adjust door height by comparing the swaged lines on the door and the body.  
The outer panel of the door must be at the same height and flush with the body side panels.





Detach the door trim strip.

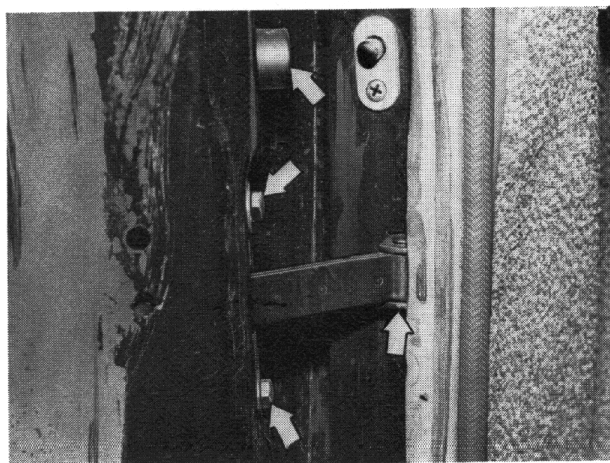
**Warning:** Unscrew the nut first.  
Detach the rubbing strip.

**Warning:** Unscrew the nut first.  
Drill holes for trim strip in bare door panel (not needed on BMW 1502), for rubbing strip and for outside mirror.

Drill away the rivet for the door stay arm at the bottom, and remove.

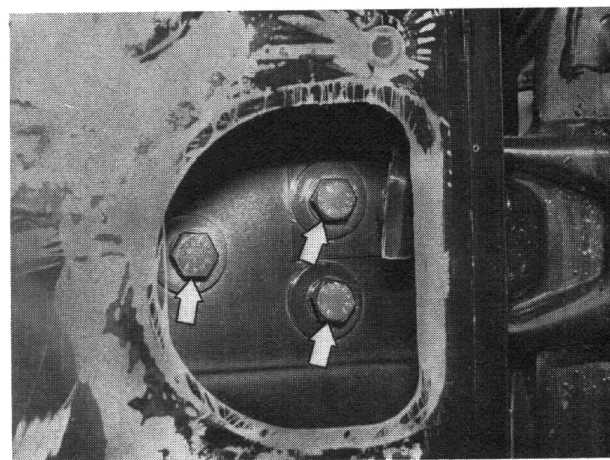
Detach the door stay arm.

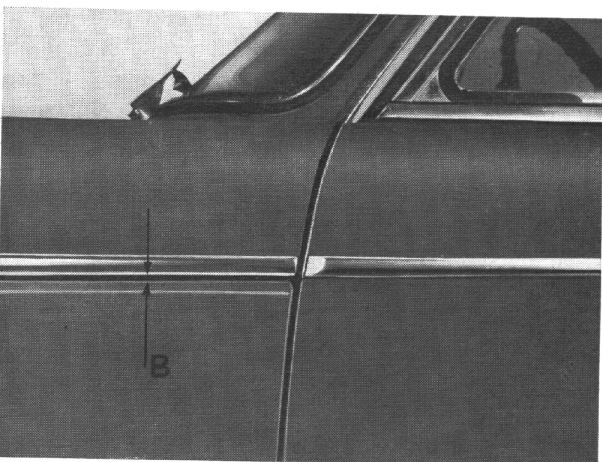
Extract the rubber pad for the door-operated light switch.



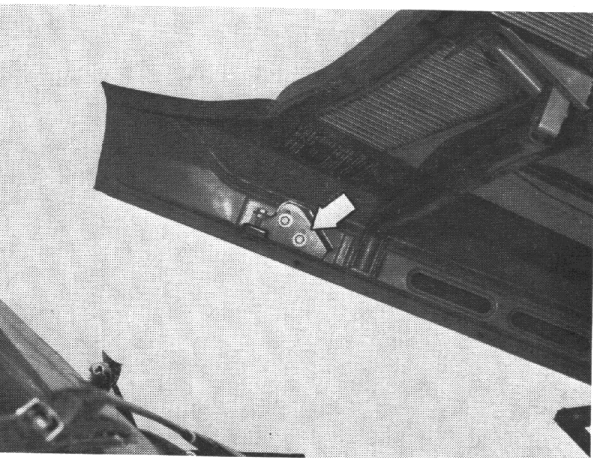
Unscrew the upper door hinge bolts.

**When installing:** Do not tighten the hinge bolt for the attachment bracket – door frame until the door frame has been installed.



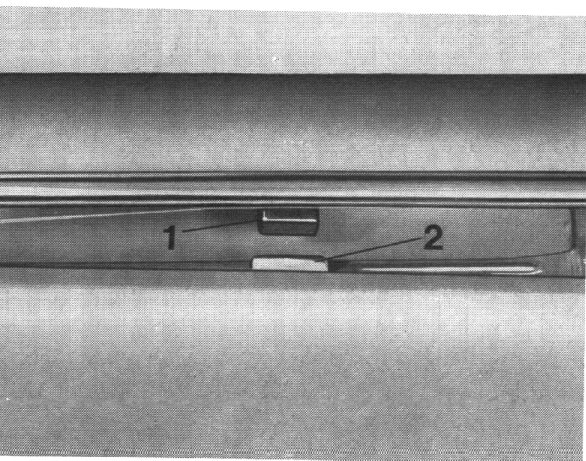


Adjust gap B so that the trim strips on the bonnet are in line with the trim strips on the doors.

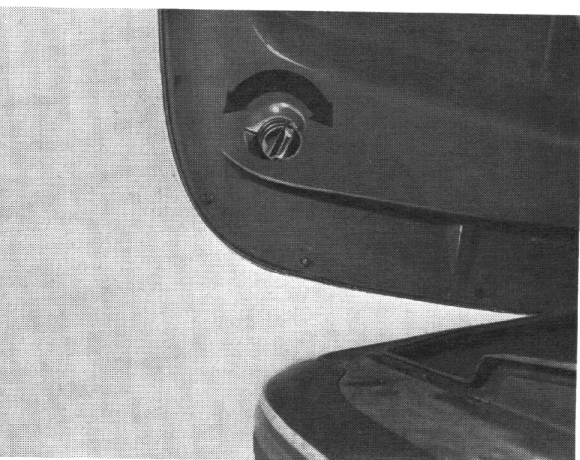


The gap is adjusted by sliding the angled catch to the left or right.

**When installing:** Engine compartment catch adjusting — 51 23 004.



The rubber buffer stops (1) must be adjusted to touch the retaining angle pieces (2) and therefore prevent the lid from vibrating.



The lid will make good contact if the rubber buffer stops at the front are adjusted; these can be set higher or lower by turning.



**41 61 000 Engine compartment lid (bonnet)**  
— removing and fitting —

Mark position of hinges.

Remove the lower bolts at left and right.

Loosen the third bolt at left and right.



Remove the left and right support arms.

Undo the upper hinge bolts.

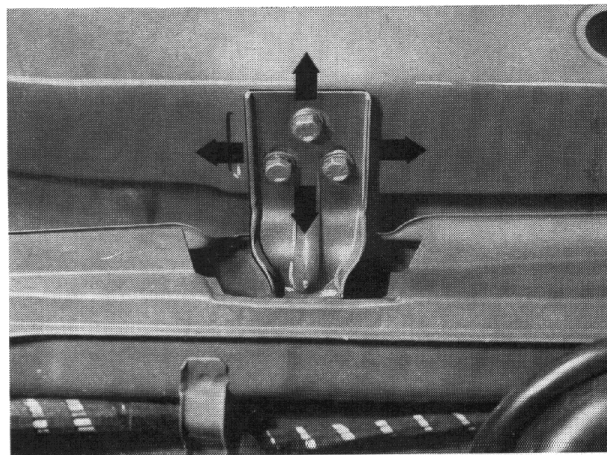
Remove the lid.



**41 61 014 Engine compartment lid (bonnet)**  
— adjusting —

Loosen fixing bolts for both hinges.

Lid with nuts mounted laterally: slots in the hinges, move forwards or backwards in the hinge slots.



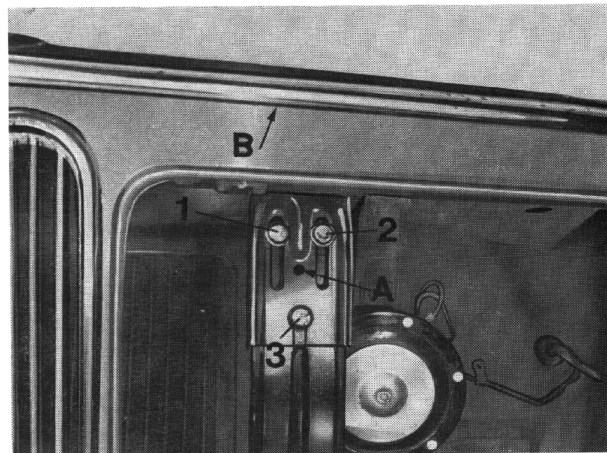
Front grille — remove (install) sideways — 51 13 040.

Loosen left and right hinge fixing bolts (1 — 3).

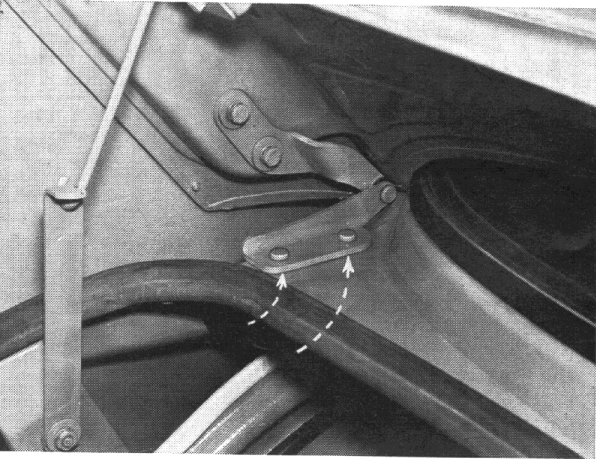
Put a pin into hole A for basic adjustment of lid position.

Close the lid and check gap B at the front.

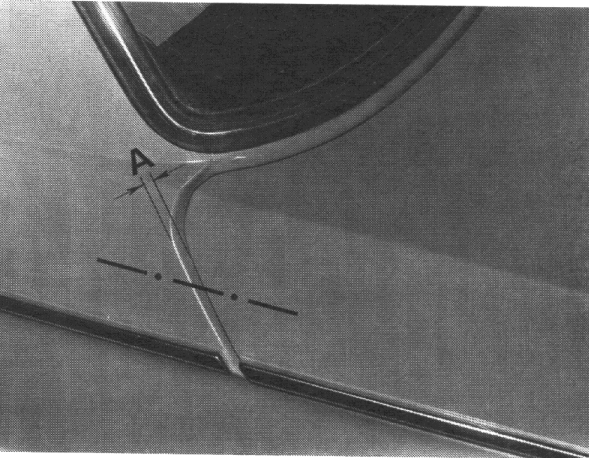
Adjust the gap by sliding the hinges.



## 41 62 014 Luggage compartment lid — adjusting —

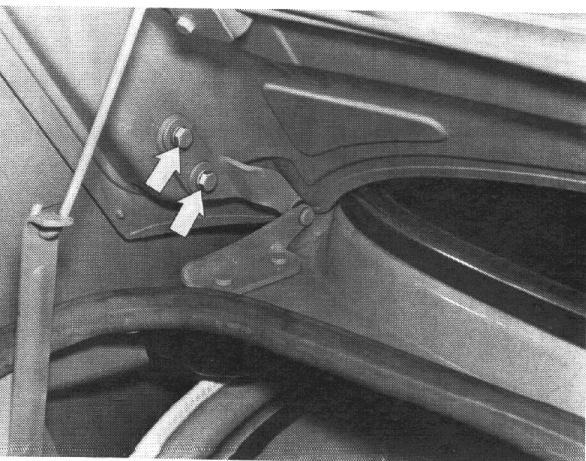


Loosen the right and left hinges on the body.

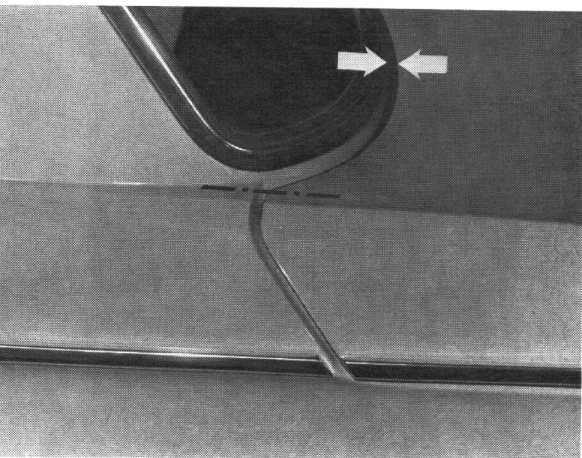


Slide the lid panel in such a way that an equal gap (A) is produced on the left and right hand sides, and so that the side panels and lid are flush.

Tighten hinges.



Loosen fixing bolts on the lid.



Adjust the height of the luggage compartment lid so that the upper edge of the side panel is aligned with the luggage compartment lid. If necessary correct the gap between the rear window frame and the luggage compartment lid.

Adjust the lock on the luggage compartment lid.

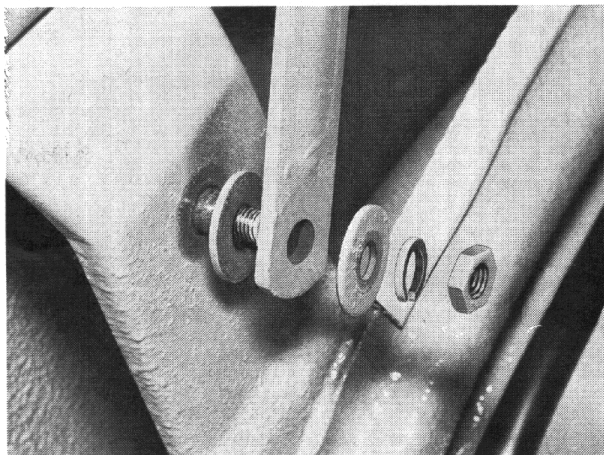




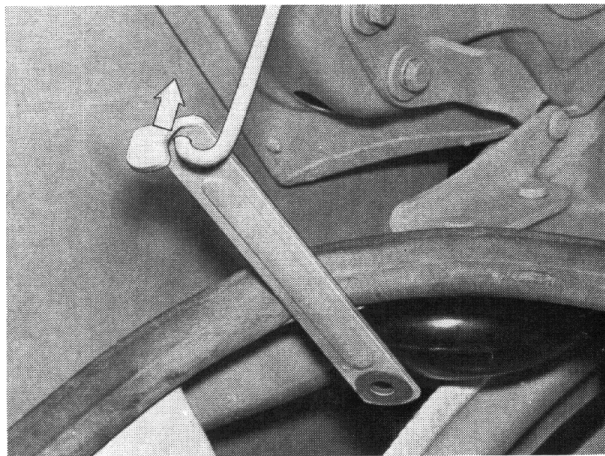
## 41 62 000 Luggage compartment lid — removing and fitting —

Loosen the right and left fixing nuts on the luggage compartment lid supports. Remove the luggage compartment lid supports from the fixing bolts.

**When installing:** Note the positioning of spacer washers.



Remove the support from the torsion bar spring.

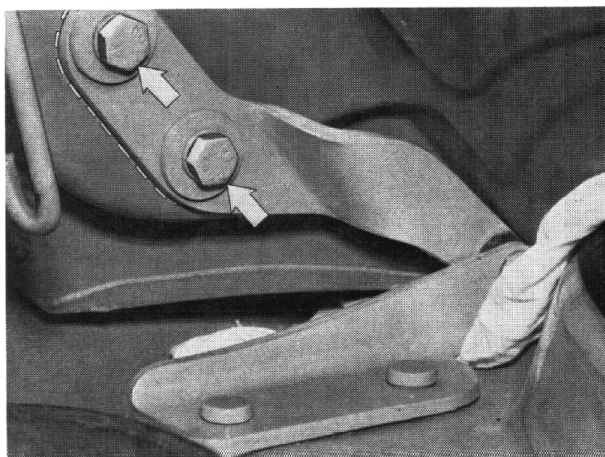


Use cloths round the right and left hand hinges to avoid damage to paintwork. Mark the position of the hinges.

Remove right and left hinge fixing bolts.

Remove the luggage compartment lid.

**When installing:** Adjust luggage compartment lid — 41 62 014.



On 'touring' models:

Lift out keepers for right and left gas springs.

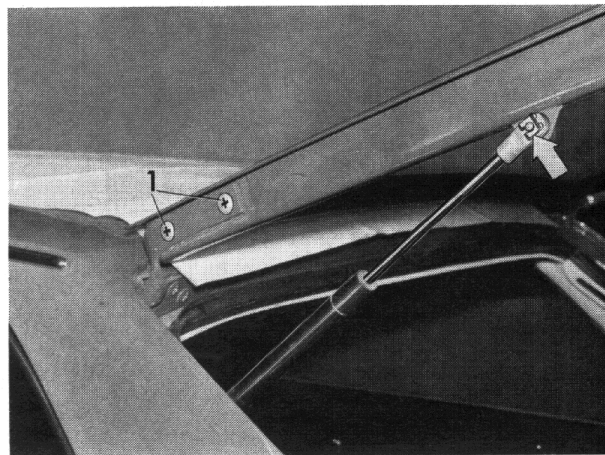
Remove gas springs from pivot pins.

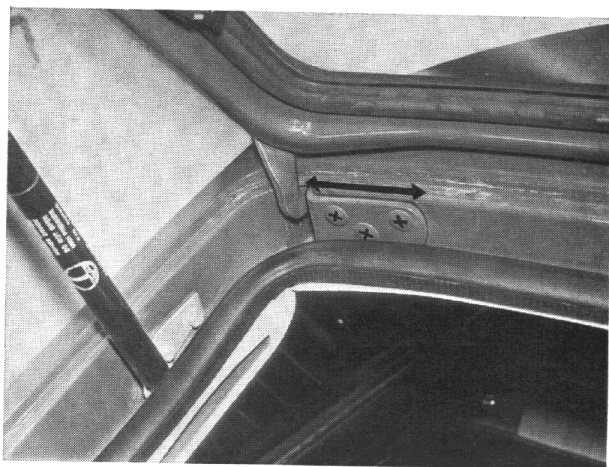
Mark the position of the hinges.

Remove the fixing bolts (1) for the rear door hinges.

Remove the rear door.

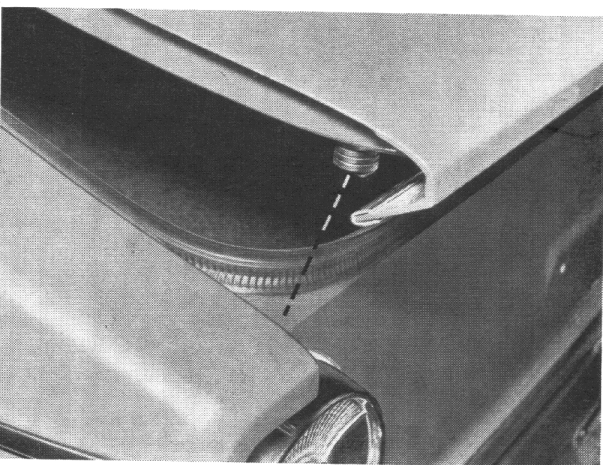
**When installing:** Should the heads of the countersunk screws (1) on the rear door or door opening become damaged, AM 8 x 20 DIN 7987 — 8.8 ZN countersunk screws must be used. Adjust rear door — 41 62 014.





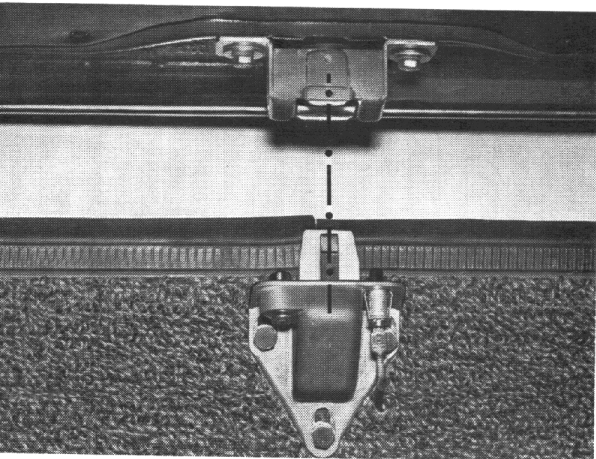
Loosen hinges on body.

Center the rear door panel in the door cutout.

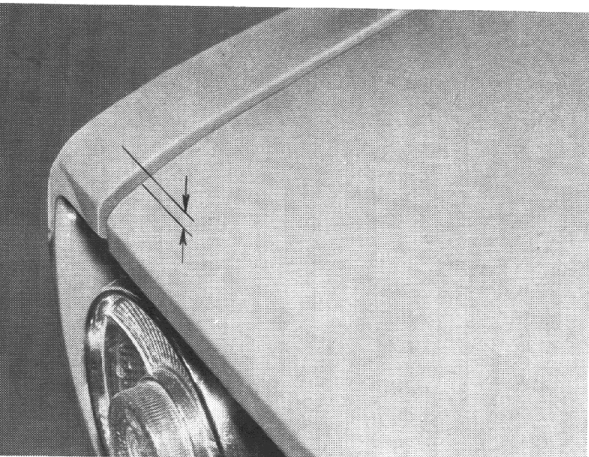


Rear door lock — basic adjustment:

Screw the buffer stop into the door panel until clearance is obtained between the buffer stop and the tail panel.



Adjust the upper section of the lock so that the distance between the door panel and its aperture is even on both right and left sides.



Adjust the lower section of the lock so that the door panel is approx. 2 mm (0.08 in.) lower than the side member.

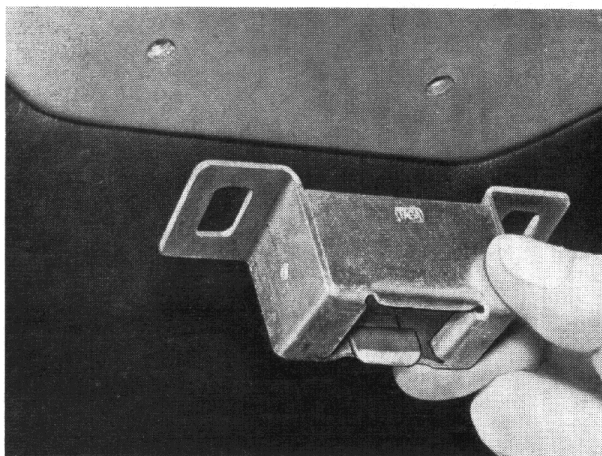
Screw the buffer stop out until the door panel is flush with the side pillars at both right and left.



On 'touring' models:

Remove the upper section of the rear door lock.

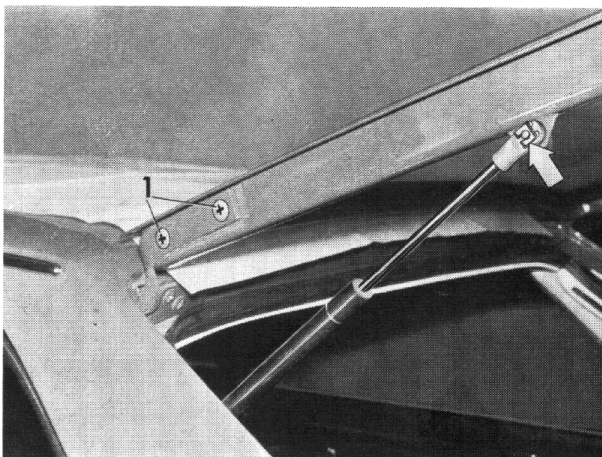
Note correct position for refitting.



Cover the outer surfaces of the roof with cardboard to avoid damage to paintwork.

Disconnect gas spring.

Loosen fixing bolts (1) for the hinges.



Adjust the rear door panel so that the side pillars and tail panel edges are aligned with the door.

Refit gas spring.

