

## SECTION 13

### ATTACHMENT OF WEATHER EQUIPMENT KIT

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#### 13.1 Fitting Hoodsticks and Hoodstraps

1.1 The rear of the vehicle is marked with the locations of the fourteen popper bases necessary to secure the rear of the hood. These should be drilled with a 5/32" drill and the popper bases secured with 5/32" countersunk pop rivets.

1.2 To prevent the drill from wandering off course we suggest that the hole centres are indented using a centre punch. (Failing this, a Phillips screwdriver may suffice).

1.3 Remove the inner hoodstick from the hoodstick assembly and feed the hoodstraps over the inner and outer hoodsticks. Adjust so that they take up the positions as shown in the diagram. Since the exact positioning will depend upon the hood itself when fitted, temporarily secure the inner hoodstick to the rear of the car with string to maintain the 16" spacing as shown in figure 13.1.

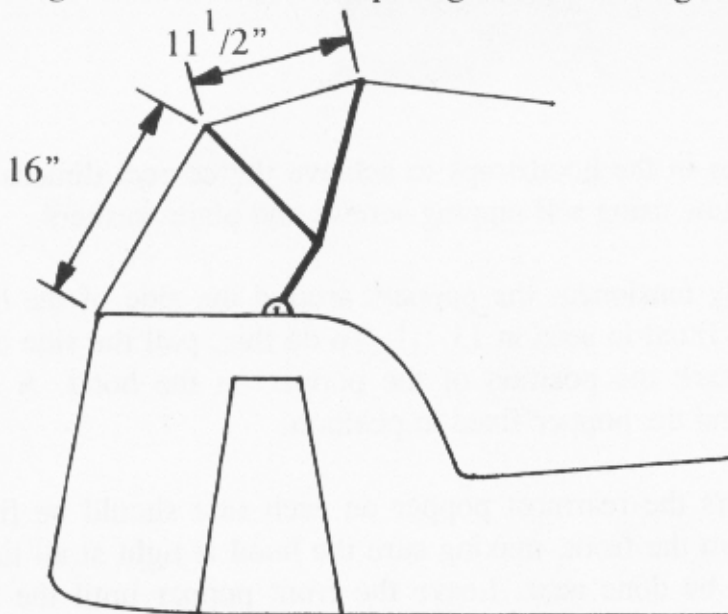


Figure 13.1 Hoodstick Spacing

1.4 Reassemble and bolt the assembly in place using the washers and nylocs supplied.

### 13.2 Hood Fitting

2.1 With the hoodsticks in the up position and the hoodstraps loose, drape the hood approximately in position. Attach the hood at the front and rear with the pre-fitted poppers. Please note that there will be no poppers fitted around the side of the hood.

2.2 Noting the dimensions in 13.1.3 fix the hoodsticks into position. The hoodsticks should align with the 'darts' in the hood. Drill the inner edge of the top rear tube with two  $1/8$ " holes,  $6\frac{1}{2}$ " outboard of the vertical braces as shown in figure 13.2.

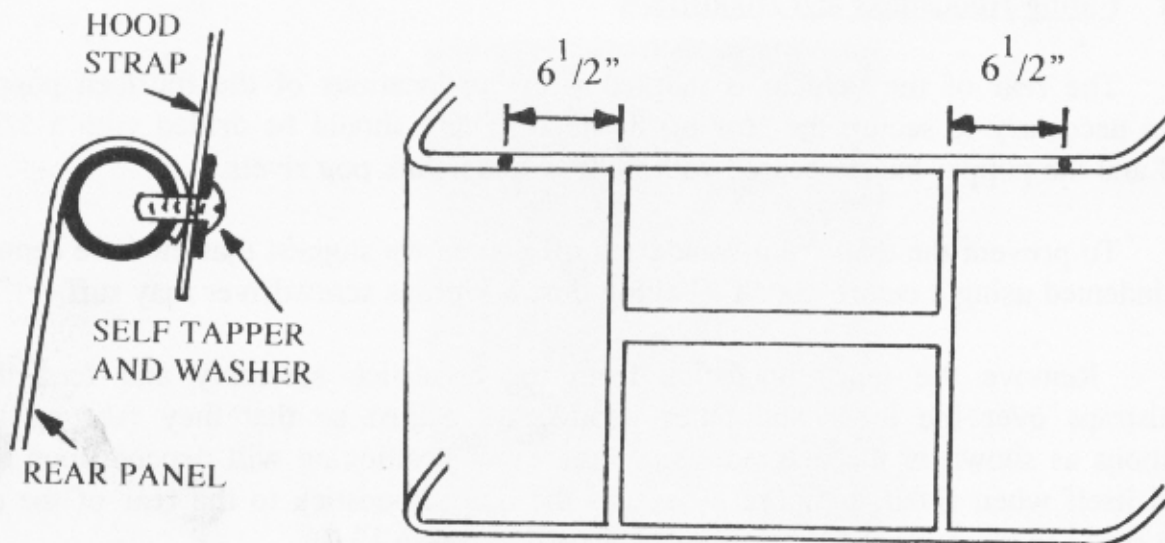


Figure 13.2 Hoodstrap Fixing

2.3 Make corresponding holes in the hoodstraps to achieve the correct dimensions and attach them to the top rear tube using self tapping screws and plain washers.

2.4 Now the hood is correctly tensioned, the poppers around the side of the hood can be fitted, to match the bases fitted in section 13.1.1. To do this, pull the side of the hood down so it is tight and mark the position of the popper on the hood. A hole should be punched in the hood and the popper fixed in position.

2.5 When fitting these poppers the rearmost popper on each side should be fitted first, followed by the second from the front, making sure the hood is tight at all times. The poppers in between should be done next. Leave the front popper until the side screens have been fitted.

### 13.3 Side Screens (Standard Hood)

3.1 Attach the side screen hinges to the outside of the windscreen with 5mm x 16mm bolts and nylocs.

3.2 With the hood erected and tensioned, offer up the side screens into position. The top of the side screen should align with the hood guttering and the front tucks in behind the windscreen support to provide protection from the elements.

3.3 Position the other halves of the hinges above those fitted to the screen and temporarily insert the brass hinge pins. Mark the locations of the hinge mounting holes on the outside of the side screens and drill 3/16" holes through the metal frame within the screen. For ease of marking, stick masking tape onto areas where the hinges are expected to locate and before drilling make sure that all the holes form one line. See figure 13.3

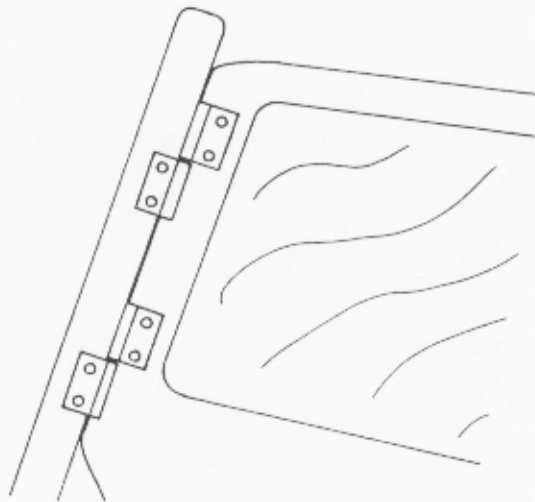


Figure 13.3 Side Screen Fixings

3.4 Bolt the hinges onto the outside of the side screens using 5mm x 16mm Posidrive screws and nylocs and mount them in place on the windscreen. In order to locate properly, the screens need to be bent around the scuttle, and where these should be bent will be clear when hung.

3.5 The side screens whether standard or increased visibility are held closed by straps located both at the rear and midway along the bottom edge in the case of increased visibility and on the hinged panel on the standard variety.

3.6 The straps to the rear on the side screens are secured using poppers, the bases for which should be fixed to the top rail of the chassis frame inside the cockpit using pop rivets.

3.7 The strap attached to the hinged panel on the side screen clips this panel shut onto a popper which needs to be fitted to the top tube just inside the car.

3.8 The position of both sets of poppers and their bases on the car will be apparent with the side screen in position, and it is important when fitting the corresponding part of each popper to the straps to ensure they are so positioned as to keep the side screens firmly shut if draughts and water ingress are to be avoided.

3.9 Fit the front popper base for the hood sides to the chassis, such that the aperture in the hood lines up with the rear of the side screen

#### **13.4 Increased Visibility Hood and Side Screens**

4.1 For taller drivers a revised hood and side screen kit is available which allows greater visibility and elbow room from a redesigned side screen and correspondingly realigned hood.

4.2 The fitment of the hood is exactly as described in 13.1 to 13.3 the only difference being an enlarged side screen aperture and the addition of a sleeve fastened with Velcro to hold the hood to the top hoodstick (see Fig 13.4).

#### **13.5 Exterior Mirrors - Fitment to Sidescreens**

5.1 Exterior mirrors are fitted to the sidescreens, towards the front just below the clear window panel. They are attached to the hidden metal frame of the sidescreen with countersunk bolts.

5.2 Drill a 5mm hole 5 inches back from the front edge of the sidescreen (not the sealing flap) and approximately 3/4" down from the clear window panel, such that the lower edge of the mirror mount is level with the seam in the sidescreen.

5.3 Loosely mount the mirror to the sidescreen and mark the position of the rear mounting hole, so that the mirror is parallel with the seam.

5.4 Bolt the mirror in place with the 5mmx16mm countersunk posidrive bolts and nyloc nuts

5.5 Take care when drilling the sidescreens to avoid the surface, underneath the vinyl covering is a sheet steel frame through which you will need to drill.

#### **13.6 Hood Erection**

If the correct procedure is not followed the hood can prove somewhat tricky to erect so we recommend that the following steps are taken:

- i) Remove the spare wheel from its carrier unless the optional spacer has been supplied.
- ii) Erect the hoodsticks.
- iii) Slacken the Hoodstraps by easing them around the sides of the rearmost hoodstick reducing the normal hood height.
- iv) Unfold the Hood and clip it onto the windscreen first.
- v) Stretch the rear of the Hood over the back of the car and clip it over the poppers situated on the backpanel starting at the outside and working into the centre.
- vi) Attach to the remaining poppers on the sides of the vehicle.
- vii) From the inside of the car ease the Hoodstraps round to the top of the rear Hoodstick to tension the Hood using the adjusting buckle to align the hoodsticks with the darts in the hood (13.6).
- viii) Some Hoods have the facility to capture the front Hoodstick in a "pocket" secured by Velcro strips. This should be done up last and prevents the Hood from "ballooning" at speed.
- ix) Finally replace the spare wheel in its carrier.

### 13.7 Folding

In order to preserve your hood and its windows we suggest that it is always carefully folded as in figure 13.7.

### 13.8 Boot Cover

6.1 The boot cover is designed to attach semi permanently to the top of the bulkhead behind the seats and to clip onto the same fasteners as those provided for the hood at the rear of the vehicle. Please note that it is designed to fit over the hoodsticks therefore it is essential that these have been fitted prior to the boot cover. When not in use, i.e. when the hood is erected, it folds away into the boot area.

6.2 The cover is designed to fit around the optional rollover bar, but since these vary according to chassis type, be sure to order the correct cover. There is also a special cover designed for De Dion cars fitted with the competition Rollover bar. Due to the positioning of this competition bar, it will be necessary to remove it before the boot cover can be fitted.



- 6.3 If the poppers have not already been fitted, measure carefully the centre point of the car across the rear bulkhead and mark the positions for six 1/8" holes to be drilled in the middle of the tube at 1 1/4", 7 3/4" and 14 1/4" each side of the centre line.
- 6.4 Carefully mark out and drill corresponding holes through the front edge of the boot cover aligning the front edge with the front edge of the bulkhead, and secure it using six popper bases with the small self-tapping screws provided.
- 6.5 Stretch the boot cover over the luggage area and establish locations for the poppers. We suggest that you fit the outermost poppers on the flat rear panel first since these will hold the cover evenly in position while the others are marked up. We suggest also that masking tape be used to assist with marking and that poppers are fitted in the same way as in the weather equipment section.
- 6.6 Fit the remaining poppers across the rear and sides of the boot area except for the forward two poppers on each side (see diagram).
- 6.7 If a tonneau cover is also to be fitted the normal popper outer or male part will have to be substituted by a further popper base. The kit includes special bases with small 1/8" centre hole to enable them to be riveted together with the normal popper inner. The rivet should pass from the inside outwards as shown.

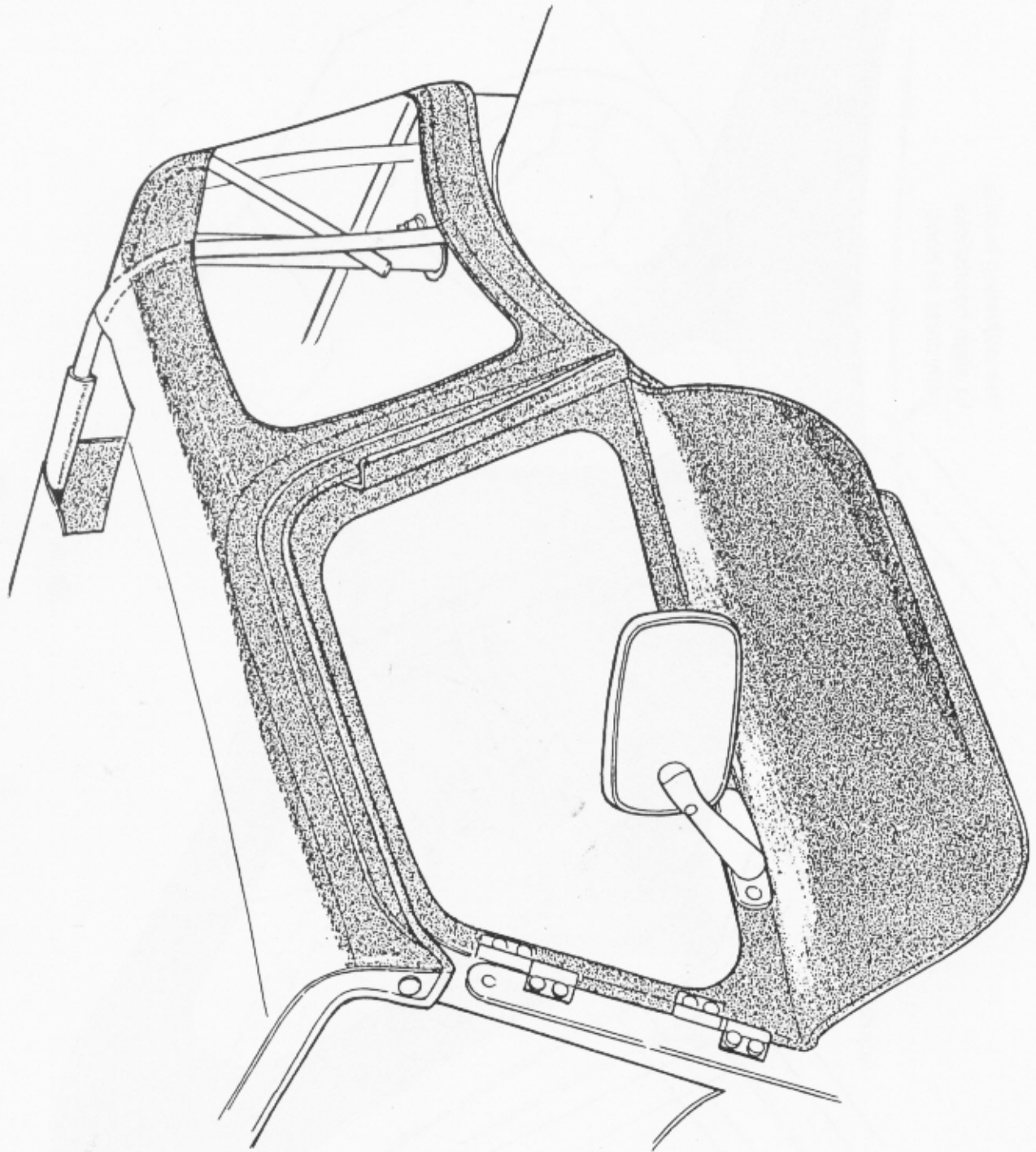


Figure 13.4 Increased Visibility Hood and Sidescreens

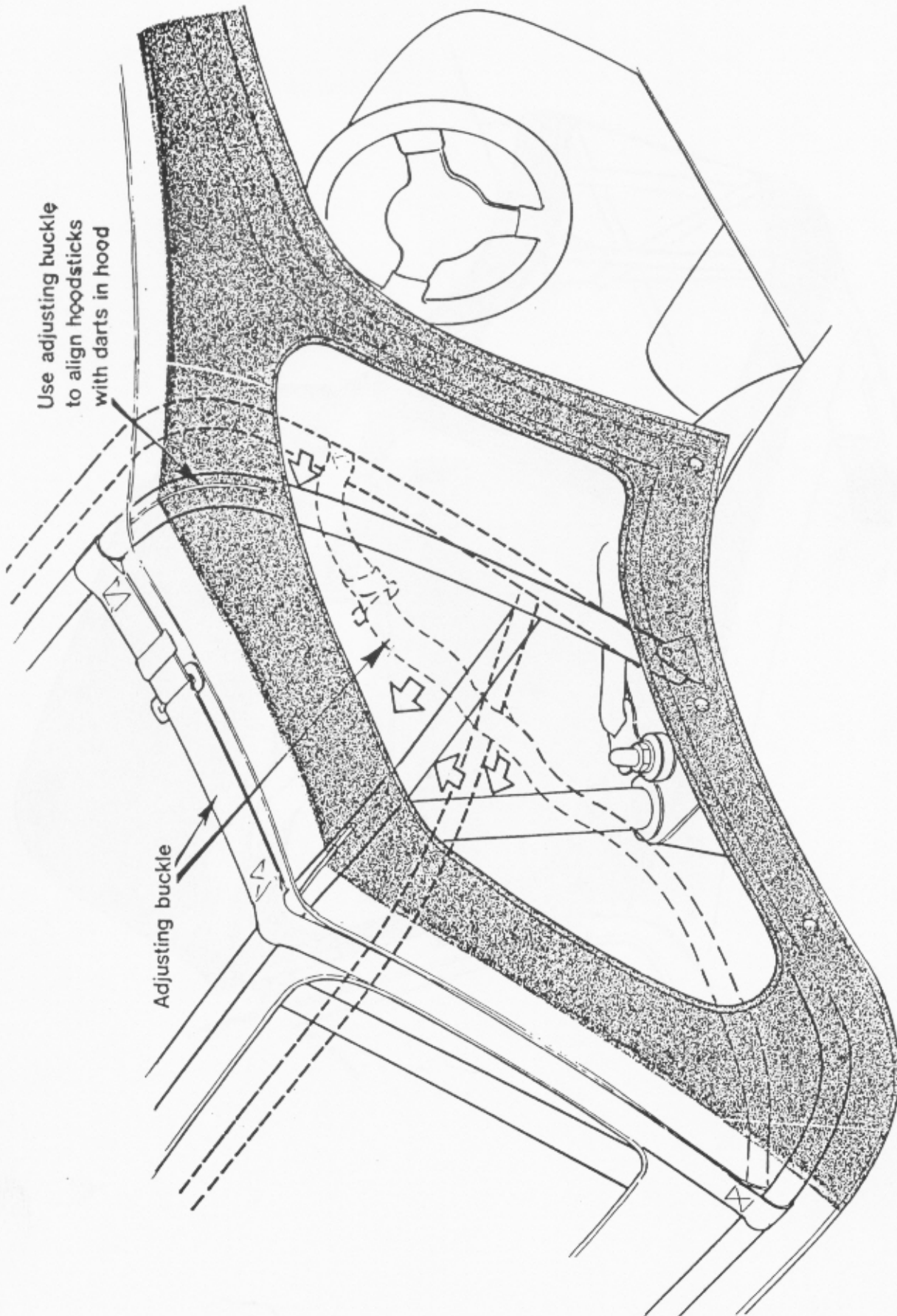


Figure 13.6 Tensioning of Hood



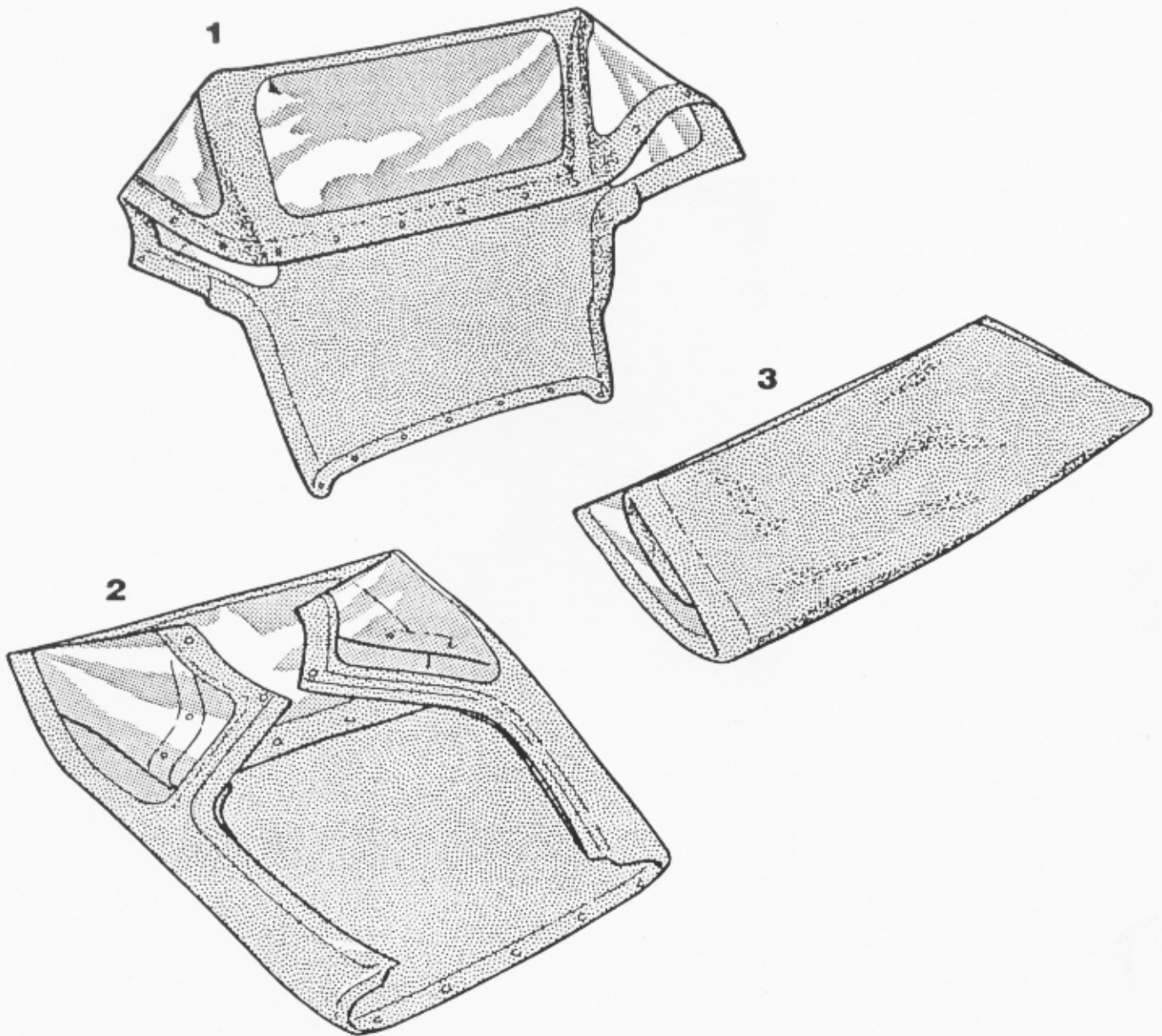


Figure 13.7 Folding of Hood