



# VOLKSWAGEN

## SUNROOF SERVICE MANUAL

A1 Chassis

Rabbit • Jetta • Dasher • Scirocco 1

NOTE: Dasher roof is typical of Scirocco 2

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# Introduction

The ProTraining booklets and training courses were designed for the professional technician. The ProTraining program was designed to help you understand how Sunroofs work and how to fix them. Our goal is to help you to be able to fix the customer's car right . . . the first time.

This booklet is divided into four sections. The first section explains how each of the three types of Sunroofs work. The other sections contain the diagnosis, repair and quality check procedures for each Sunroof.

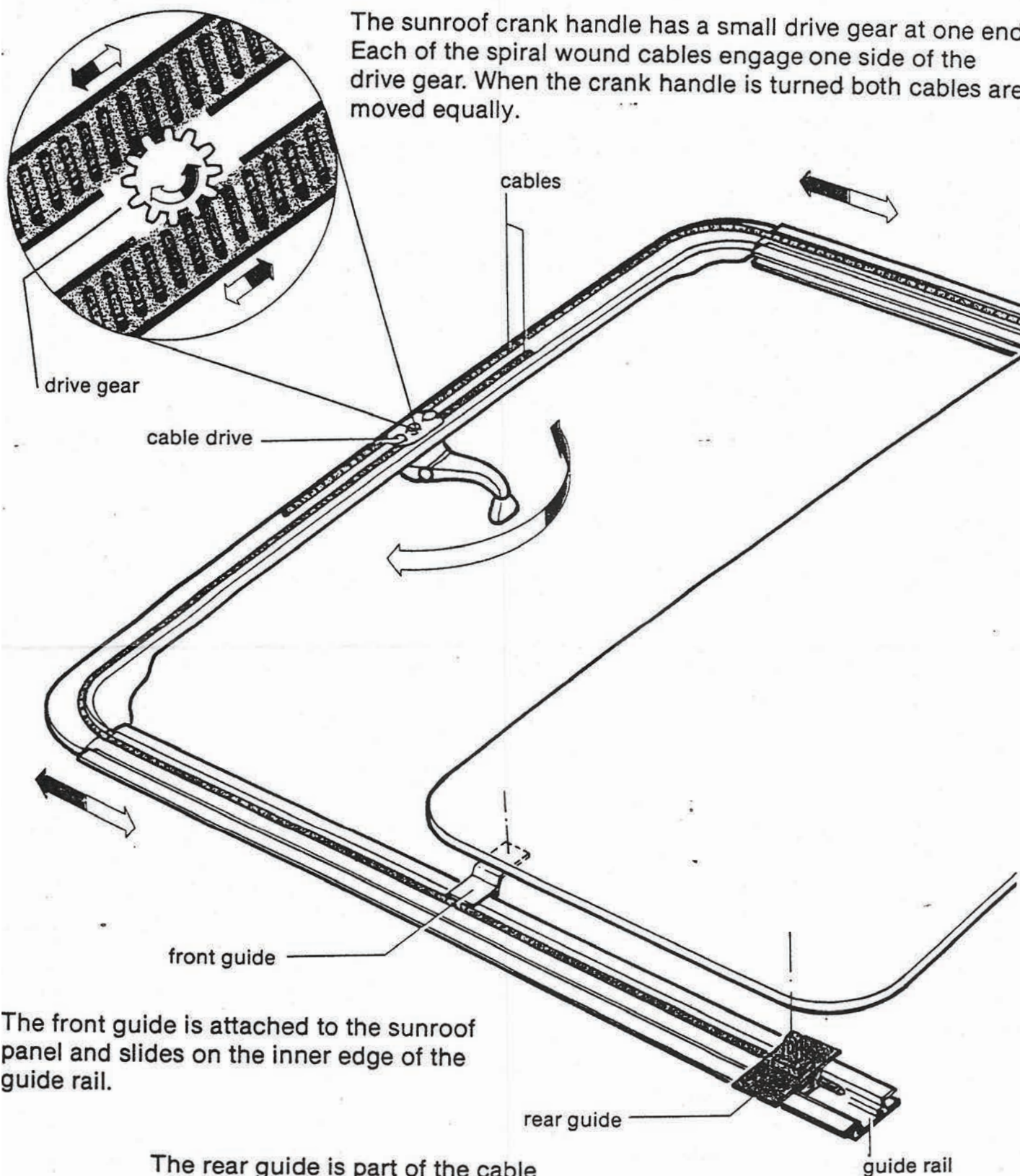
Sunroofs should be repaired by the following step-by-step procedures shown in each section of this book.

- Diagnose the problem. Make sure you understand the customers complaint.
- Identify the symptoms as you follow the diagnosis procedure. Try to find the problem. For example: Is the headliner loose? Does the Sunroof close completely?
- Repair the problem after you have identified the symptom. Some symptoms can be fixed by just making a few adjustments. Other symptoms will require complete Sunroof disassembly.
- Quality check. After completing the repairs, always check the operation of the Sunroof before returning the car to the customer.



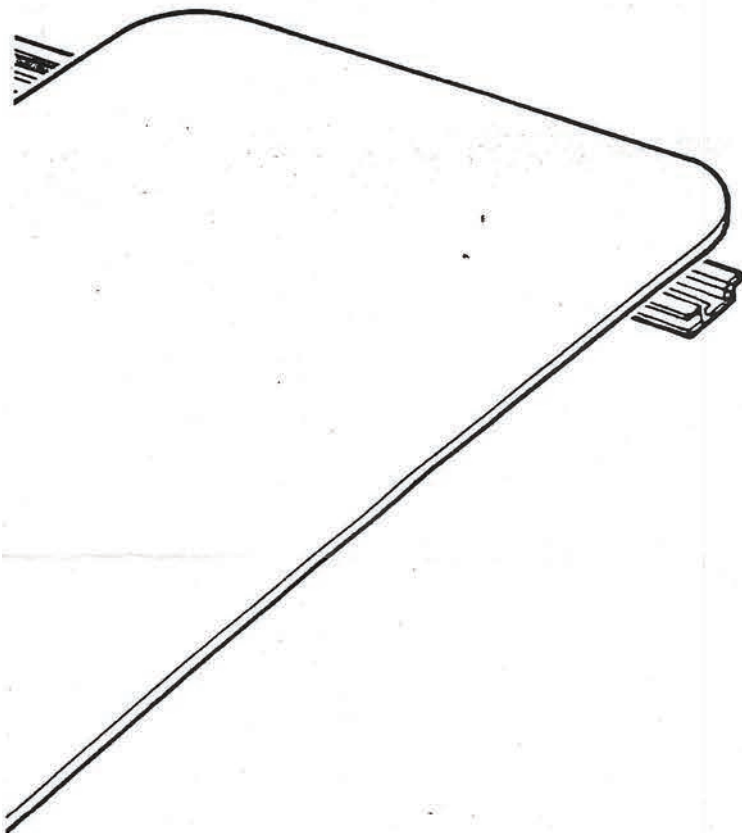
# Sunroof Operation

The sunroof crank handle has a small drive gear at one end. Each of the spiral wound cables engage one side of the drive gear. When the crank handle is turned both cables are moved equally.



The front guide is attached to the sunroof panel and slides on the inner edge of the guide rail.

The rear guide is part of the cable assembly and slides in the center of the guide rail. The cables are attached to the rear guides so that movement of the cables is transmitted to the sunroof panel.



There are two types of cables.



Cables with brush type material are lubricated with oil.

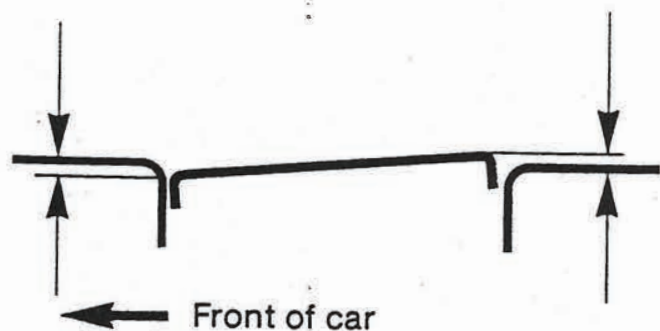
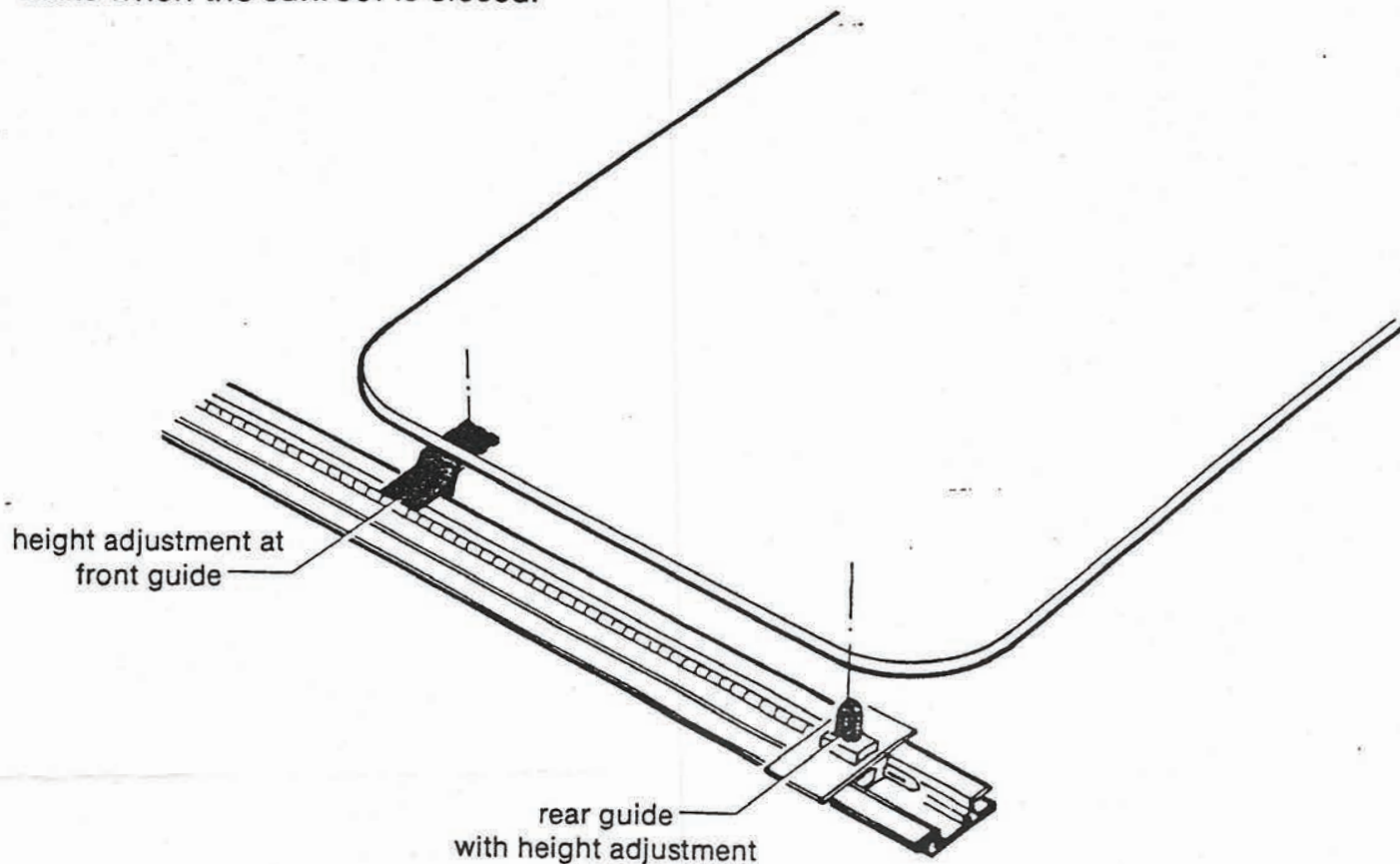


Cables which are all steel must be lubricated with grease.

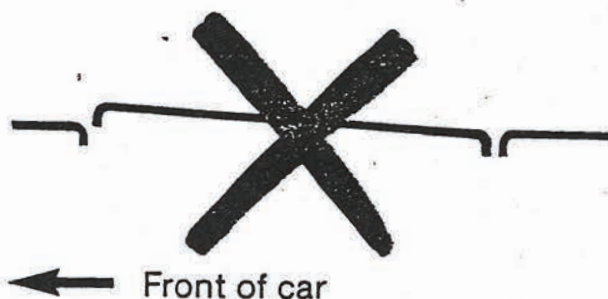
# Sunroof Height Adjustment

Every sunroof has provision for height adjustment at each of the front and rear guides.

Proper adjustment will prevent water and wind leaks when the sunroof is closed.



The sunroof is correctly adjusted when the edge toward the front of the car is level with, or 1mm below the roofline. The rear should be level with or 1mm above the roofline.

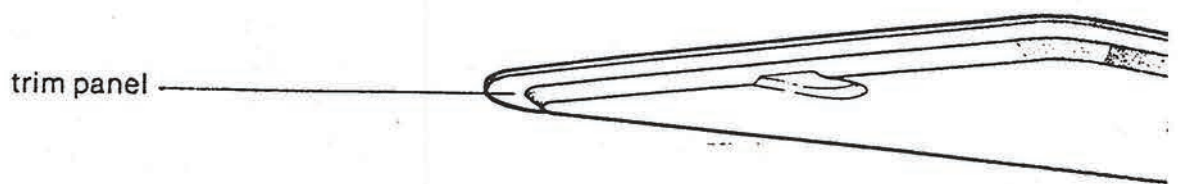
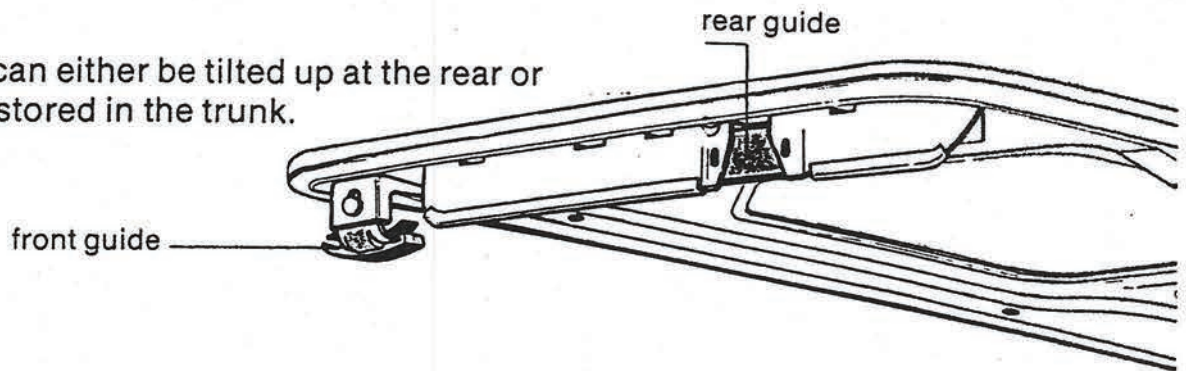


Sunroofs which are incorrectly adjusted can leak water and cause wind noise.

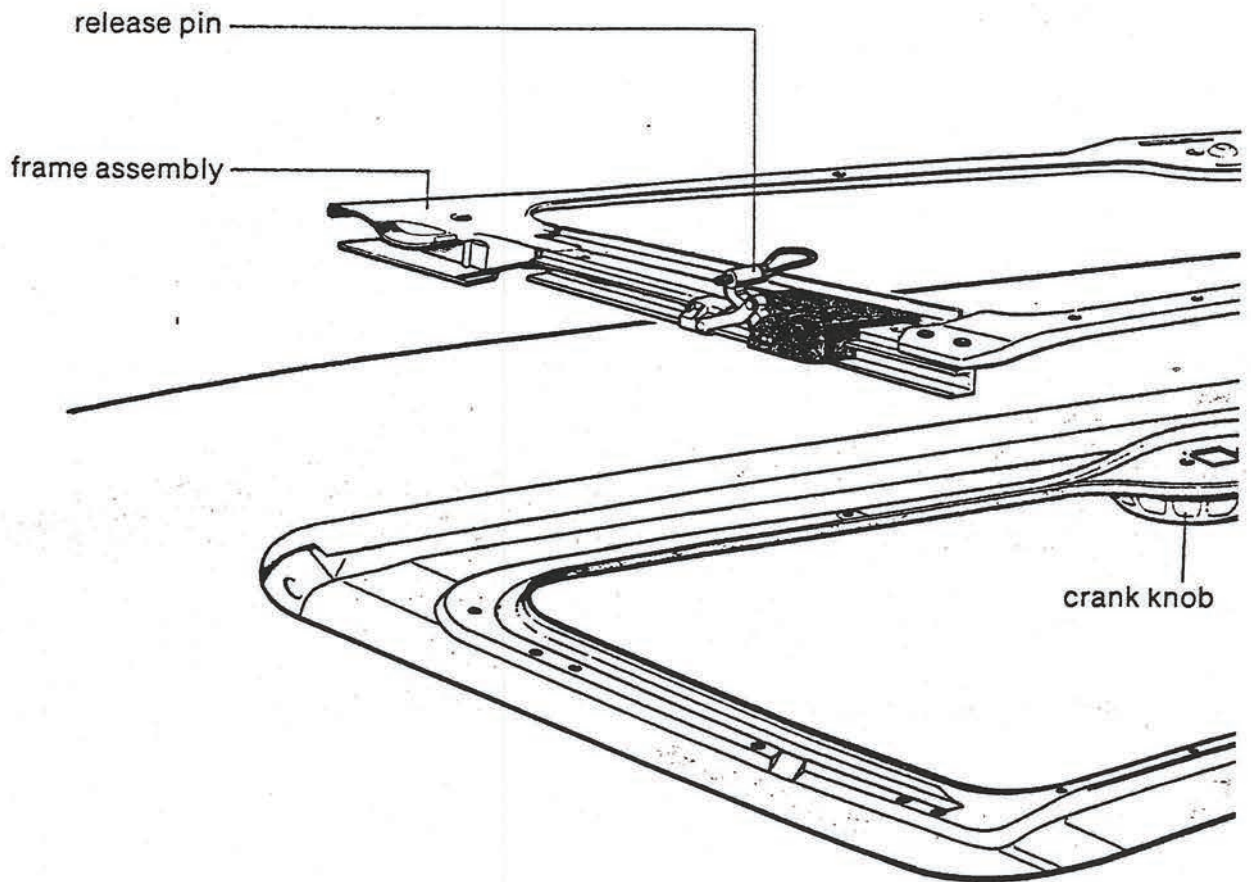


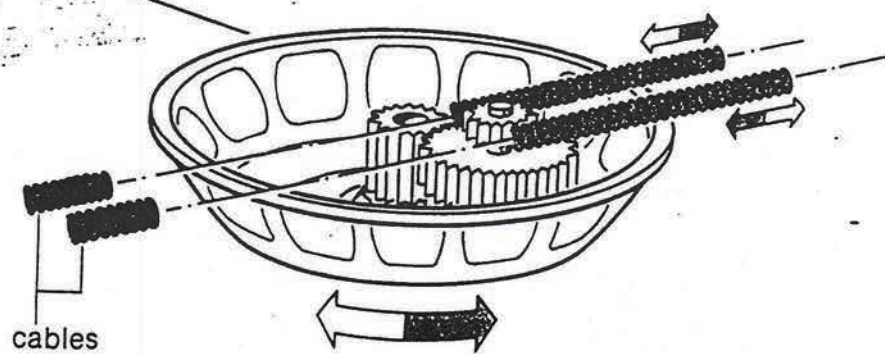
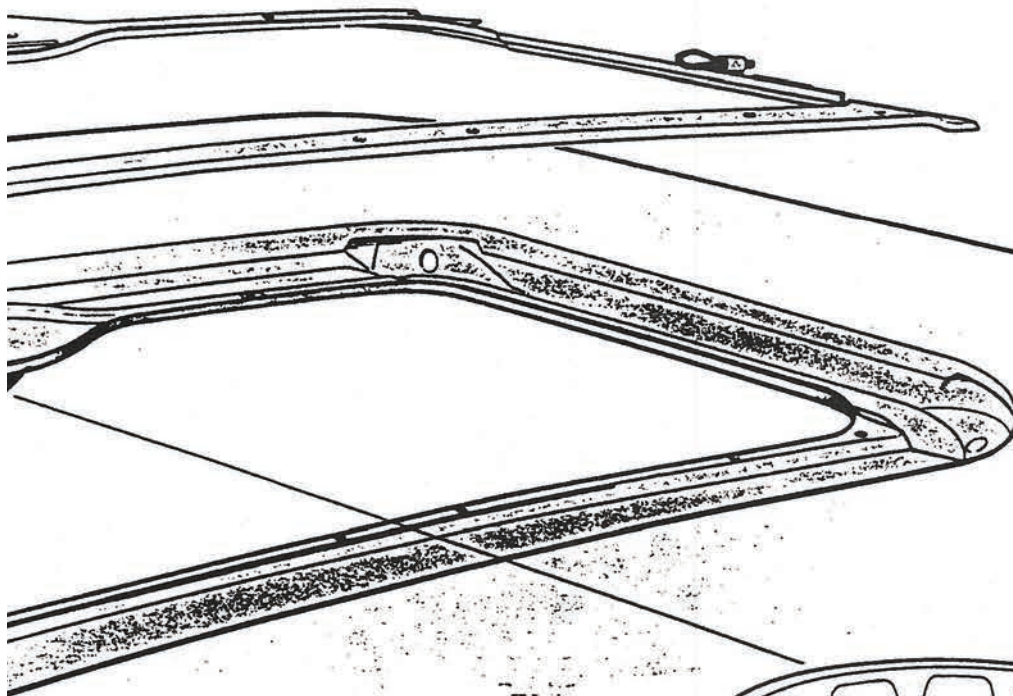
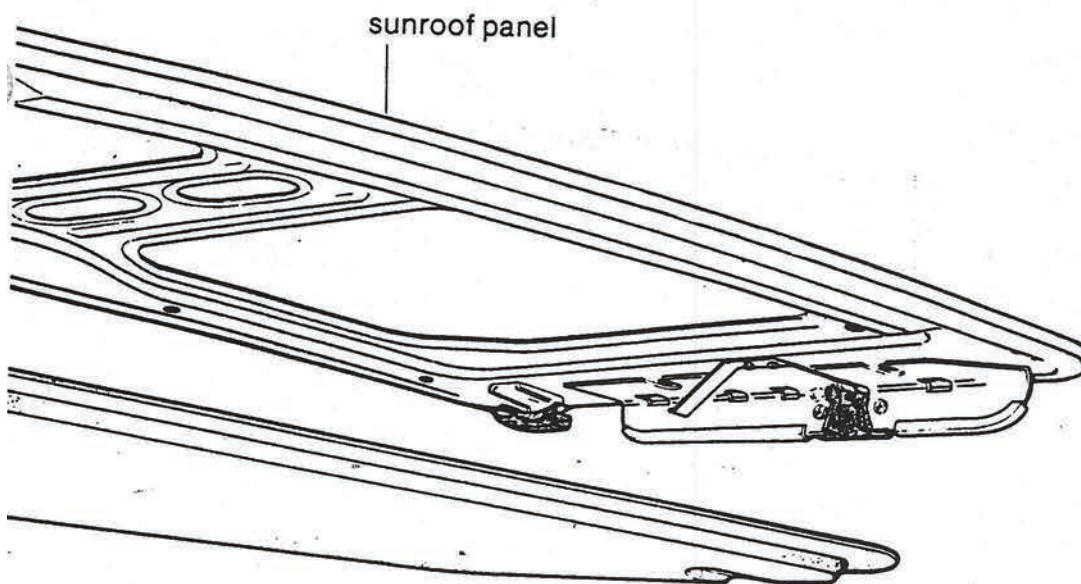
# Removable/Tilting Roof – Scirocco

This sunroof can either be tilted up at the rear or removed and stored in the trunk.



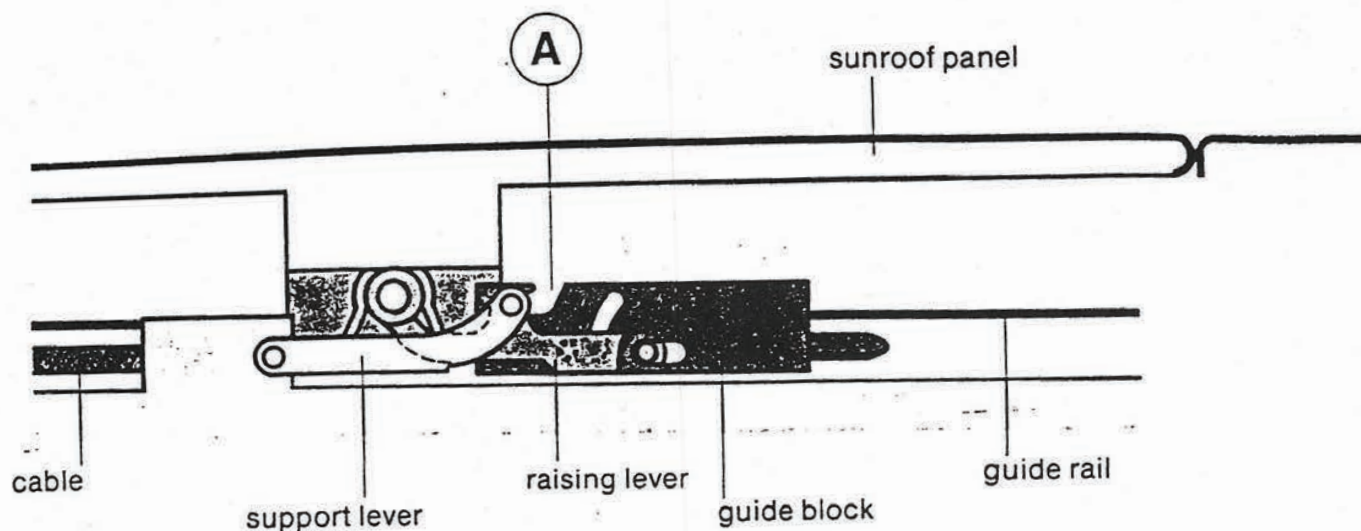
The frame assembly cannot be disassembled and is bolted to the body. The cables and tilting mechanism are part of the frame assembly.



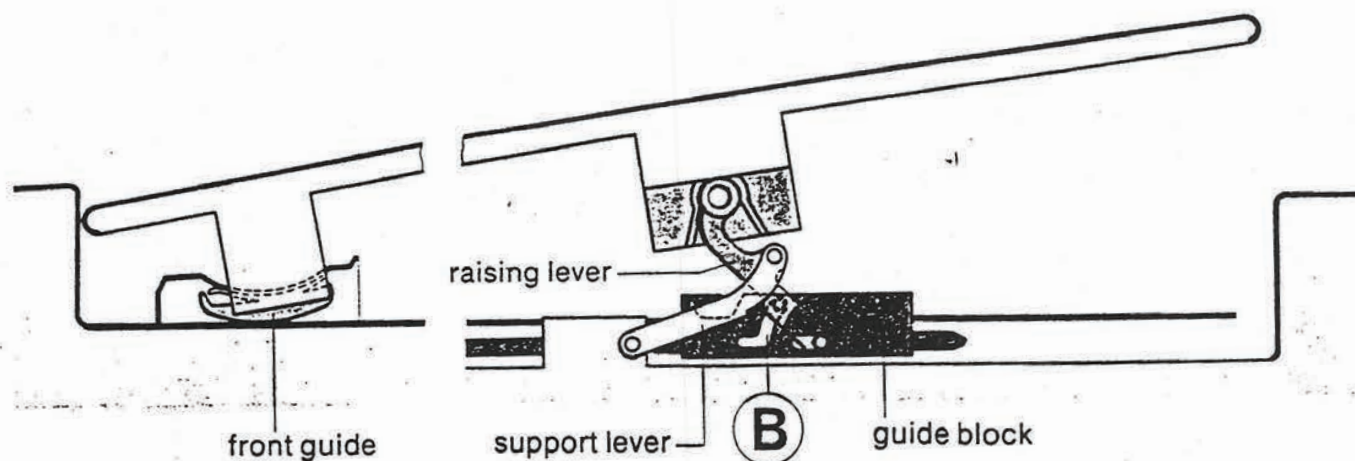




# Tilting The Sunroof – Scirocco



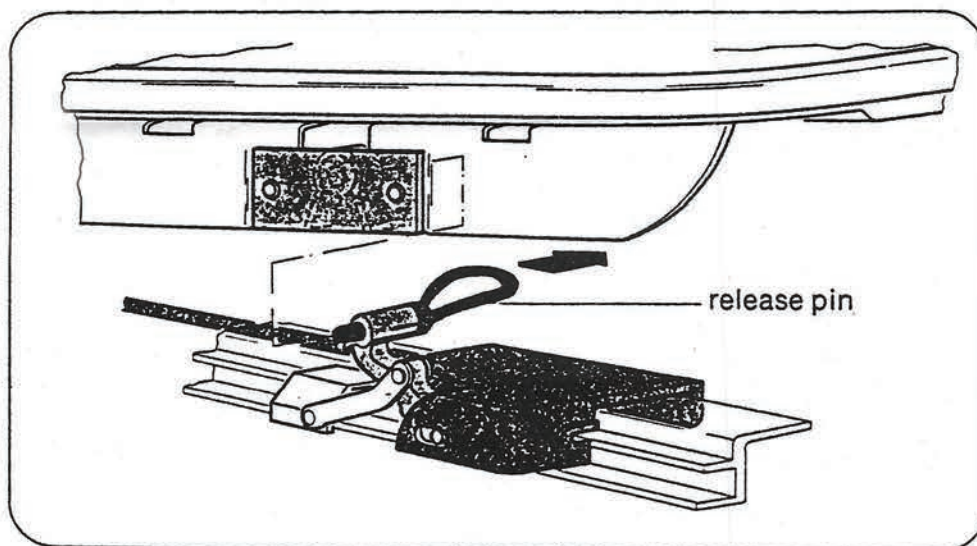
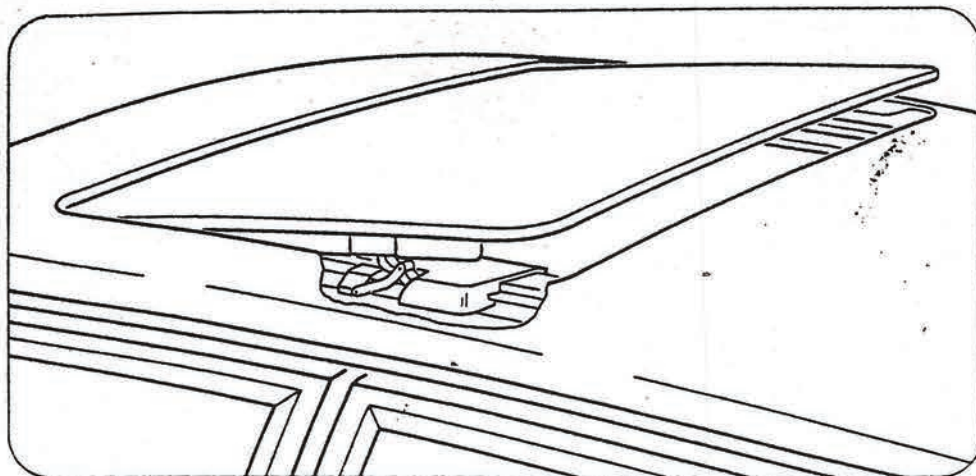
The support lever is attached to the body so that it can pivot. The raising lever connects the guide block to the sunroof panel. Recess (A) locks the sunroof panel in place when the roof is closed.



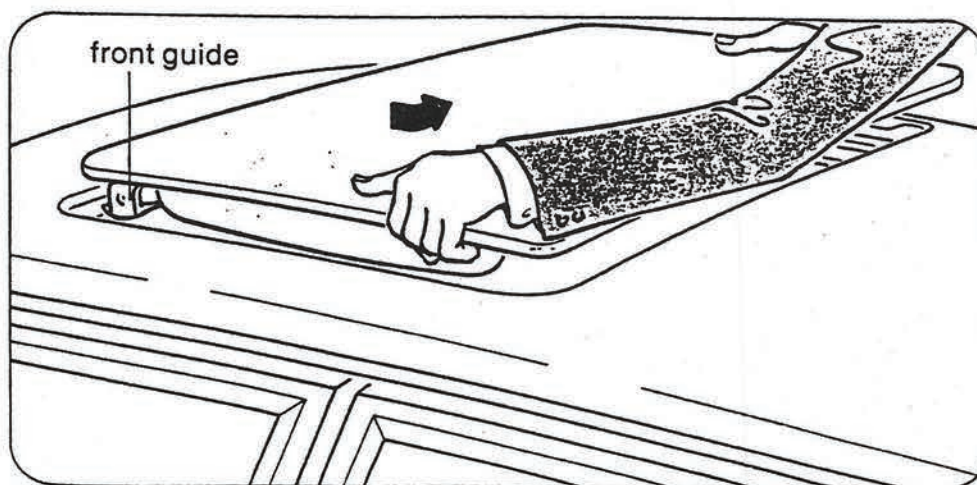
When the crank knob is turned the cables pull the guide blocks forward. The support lever lifts the raising lever and the front guide acts as a pivot. Recess (B) limits the opening angle.

# Removing The Roof

The sunroof can be removed after releasing the rear guides. There's a pouch, for storing the sunroof, in the trunk.



When the release pin is pulled, the rear guide is disengaged from the raising lever.



After the rear guide has been disengaged, the sunroof can be lifted up and pulled back to release the front guides.