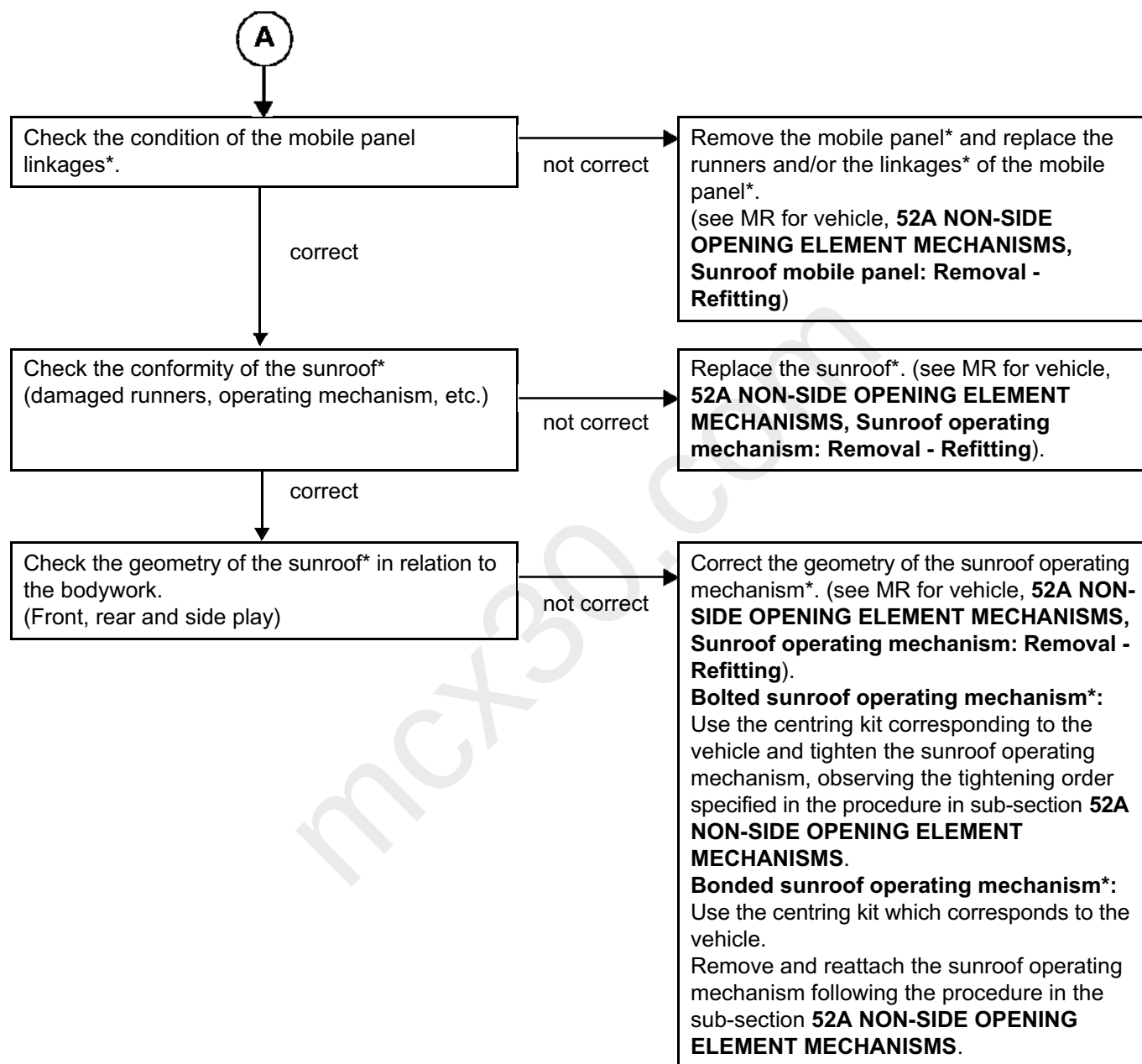


# FAULT FINDING INTRODUCTION

## Fault finding – Fault Finding Chart

01E

|                                     |                         |
|-------------------------------------|-------------------------|
| <b>CHART 26</b><br><b>CONTINUED</b> | <b>Sunroof rattling</b> |
|-------------------------------------|-------------------------|



\*: see the illustrations in ALP: Sunroof chattering

# FAULT FINDING INTRODUCTION

## Noise diagnostic tool – Use

01E

### Introduction:

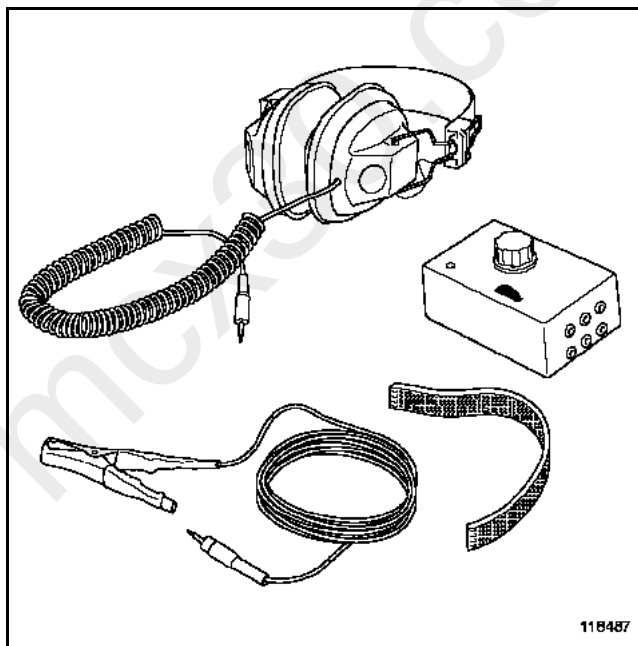
Before using the diagnostic tool (**Part no. 77 11 421 103**), it is essential to identify that the noise heard by the customer comes from the vehicle (and not from various objects in the vehicle or from the surrounding environment, etc.).

**Note:** Whenever possible, empty the contents of the vehicle's various storage compartments.

The **ChassisEar** is an electronic, versatile diagnostic tool designed to enable the user, during a road test, to amplify the sounds produced by different areas of the vehicle:

- Suspension
- Rotating components
- Front panel
- Engine
- Engine sub-frame
- Steering column
- Under body
- Rear face

### Diagram of the tool:



The tool case is composed of the following:

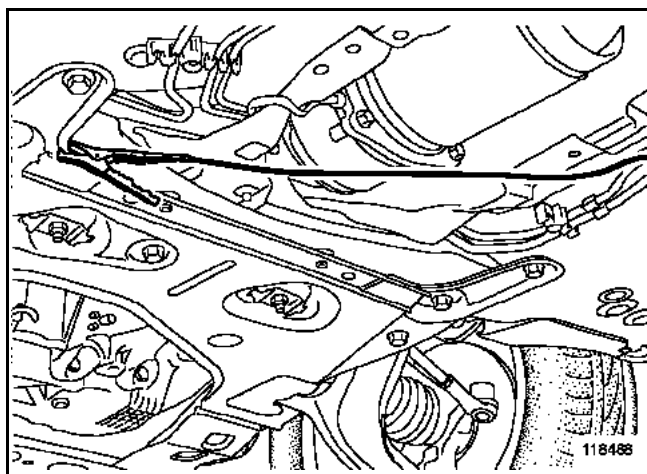
- Control unit (1)
- Clamp - Cable assembly (2)
- Headset (3)
- Velcro strip (4)

### 1) Fitting the tool:

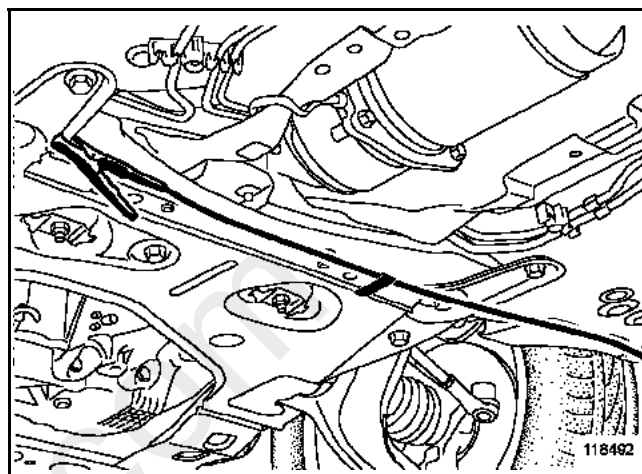
#### 1.1) Precautions to observe when fitting the tool:

##### 1.1.1) Assembly (wire – clamp):

- Ensure that the clamps are not:
  - In contact with or near to sources of heat (exhaust, etc.)

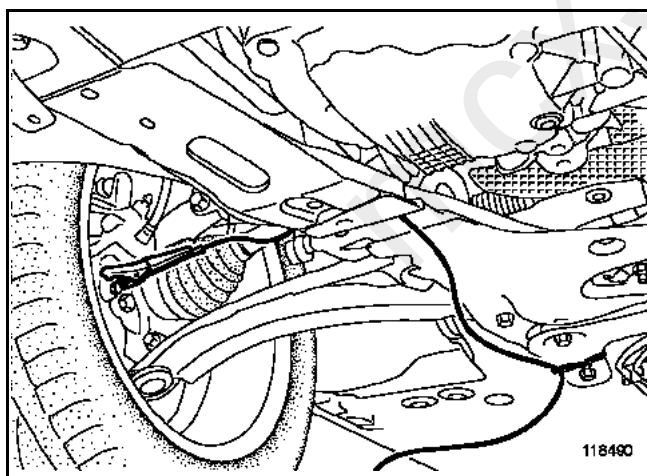


**Incorrect fitting**

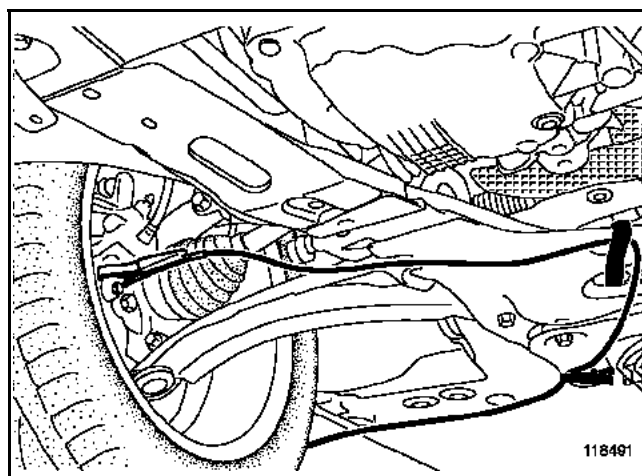


**Correct fitting**

- In contact with highly corrosive liquids (brake fluid, etc.).
- Ensure that the clamps are not:
  - In contact with rotating components.



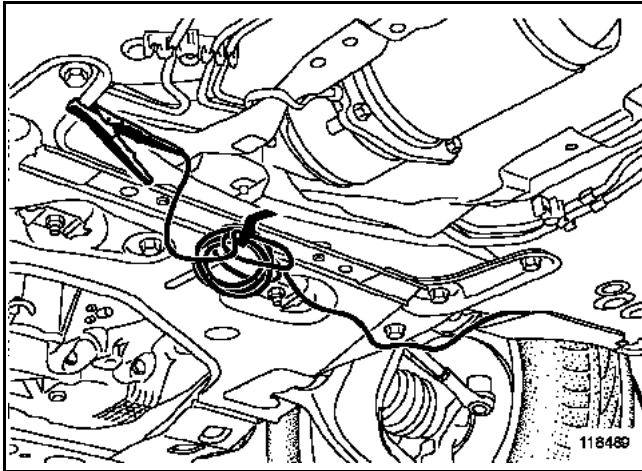
**Incorrect fitting**



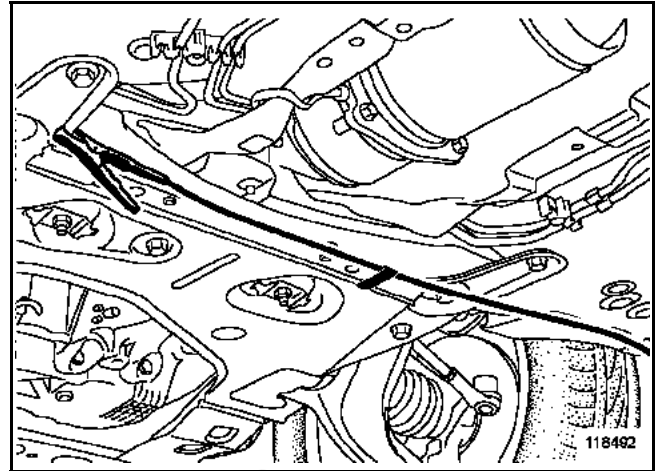
**Correct fitting**

- Make provision for parts to move whilst driving (wheels turned to full lock, movement) to prevent the clamp from becoming unclipped and the wire being severed.

- Do not twist the wires.



**Incorrect fitting**



**Correct fitting**

- Only attach the wires using the velcro strips supplied in the tool case.

### **1.1.1) Connection (Clamps-Control unit):**

The control unit has 6 inputs which correspond to clamps of the following colours:

- 1: Red
- 2: Green
- 3: White
- 4: Pink
- 5: Blue
- 6: Orange