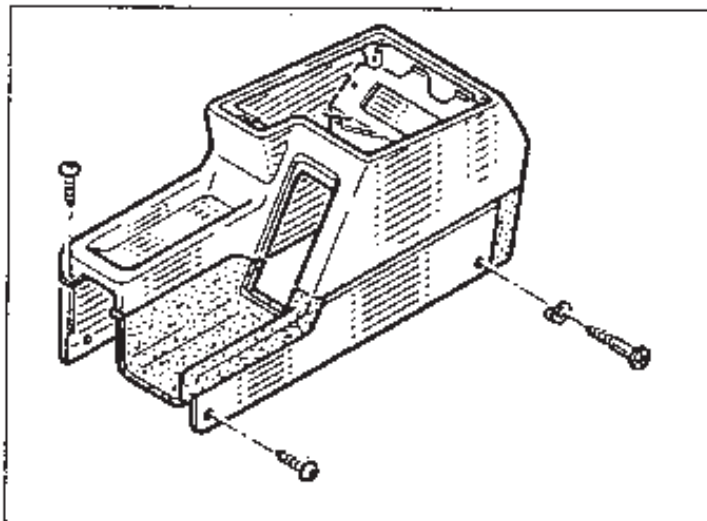
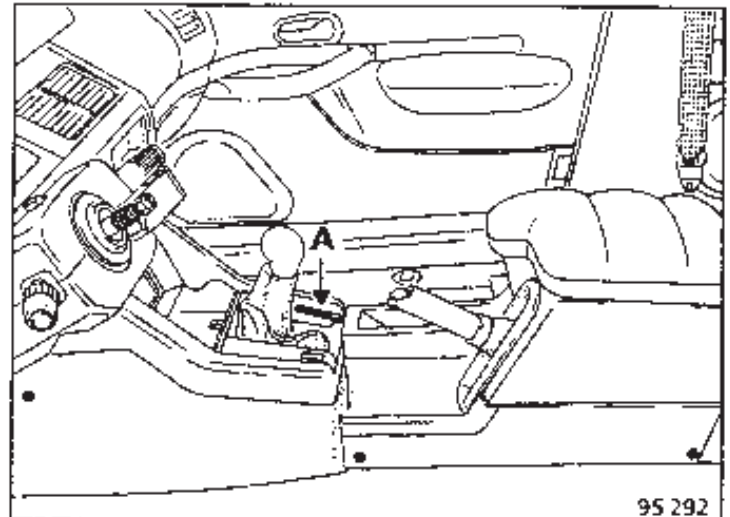


NOTE: When removing and refitting, note the length and location of the mounting bolts used. (Large head Torx bolts at 1)

REMOVAL

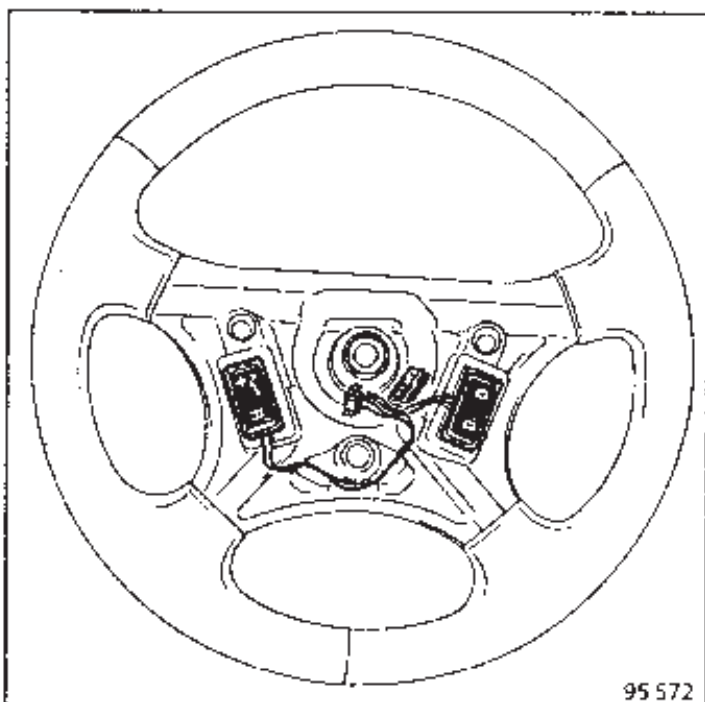


Remove cover (A)
Remove 5 rear console bolts.
Disconnect connectors.
A cut out is provided for removing from the handbrake lever.
Put the steering column in the high position and push the seats back.
Disconnect the battery.



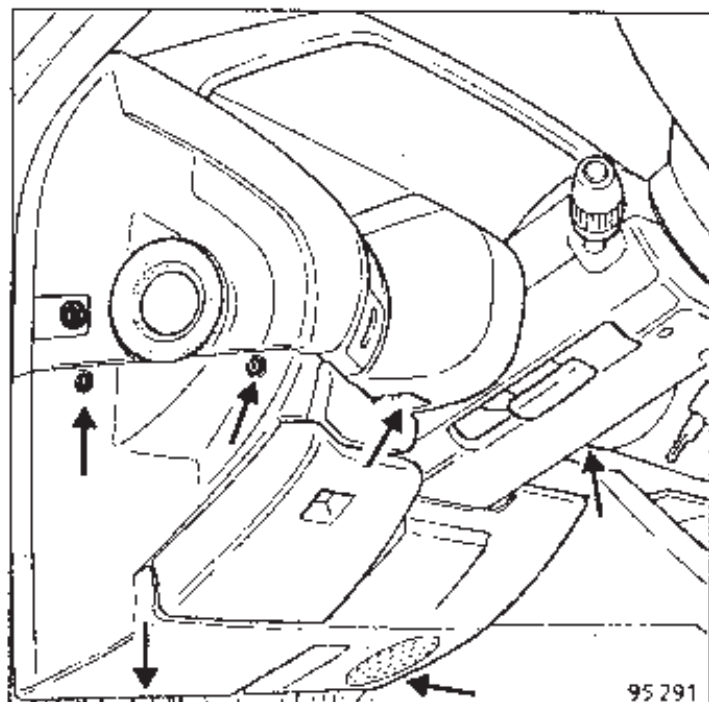
Remove the front console.

95 292

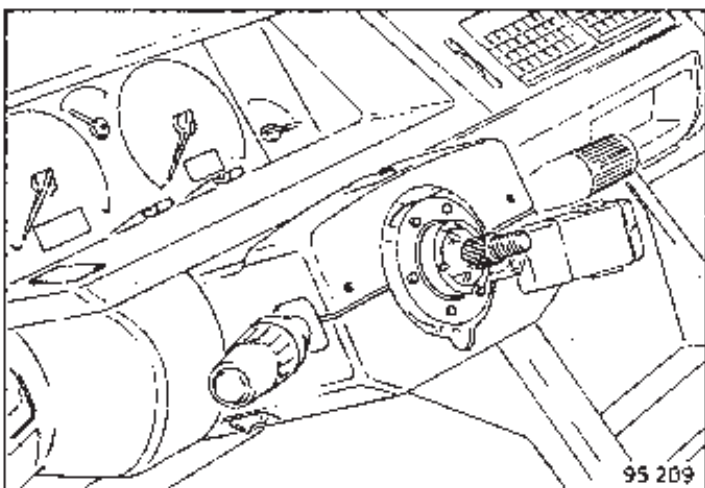


Remove:

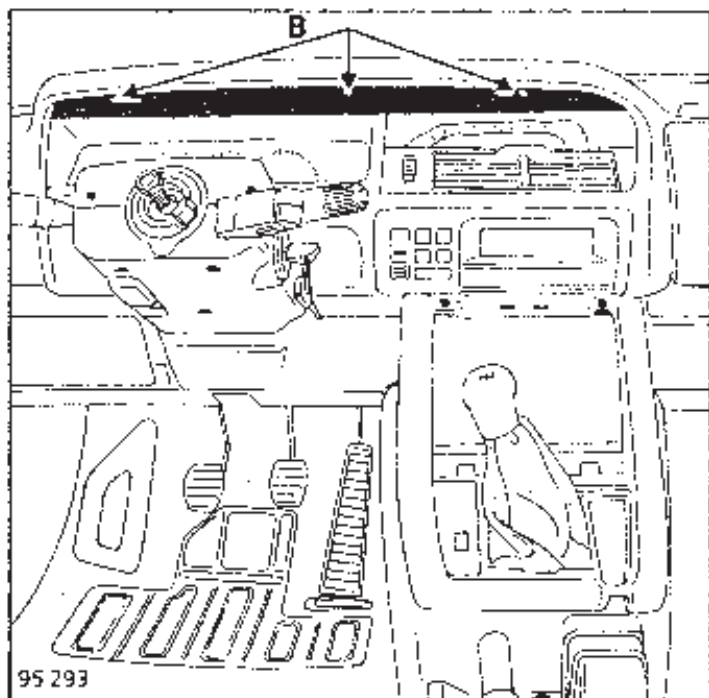
- the steering wheel.
- the windscreen pillar trim.



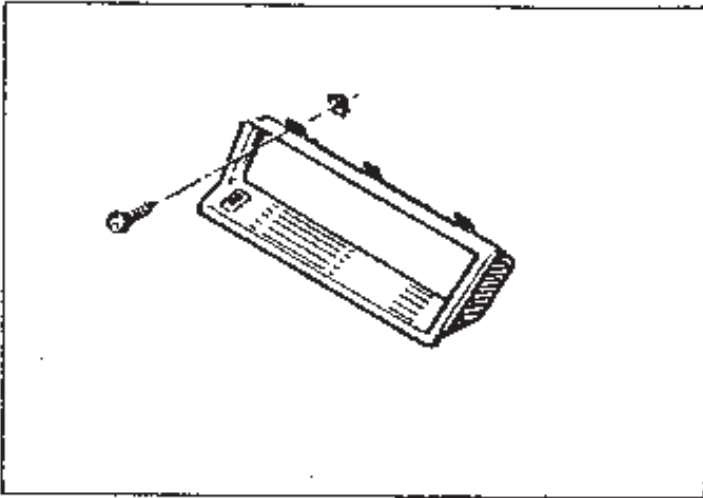
- the side panels under the dashboard.
- the glove box



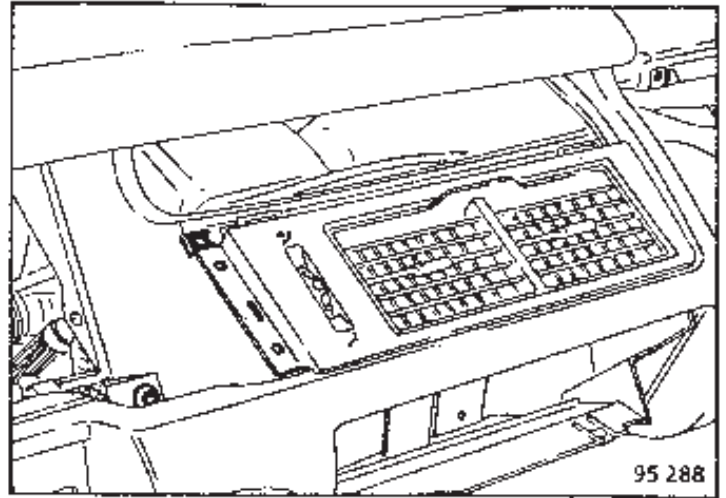
- the cowling under the steering wheel (steering column in high position)



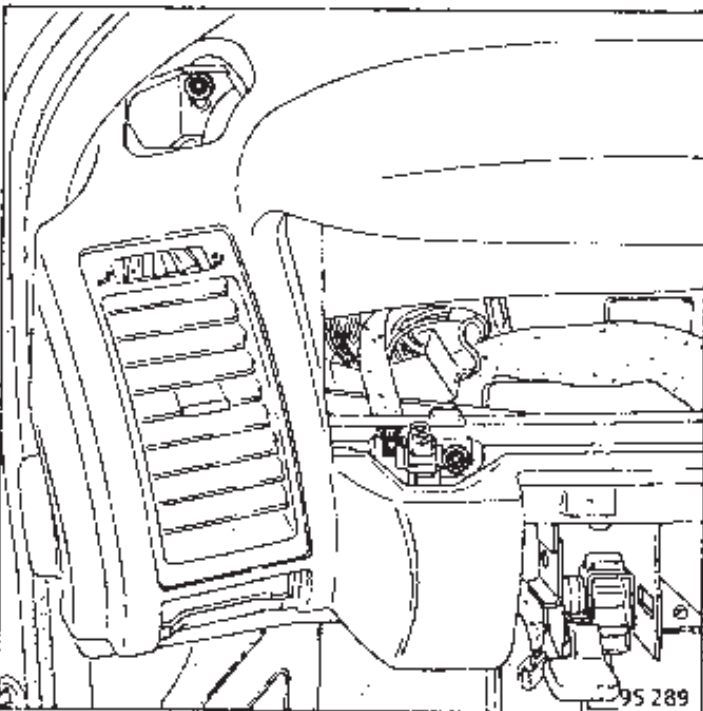
- the upper dashboard visor, bolts (B).



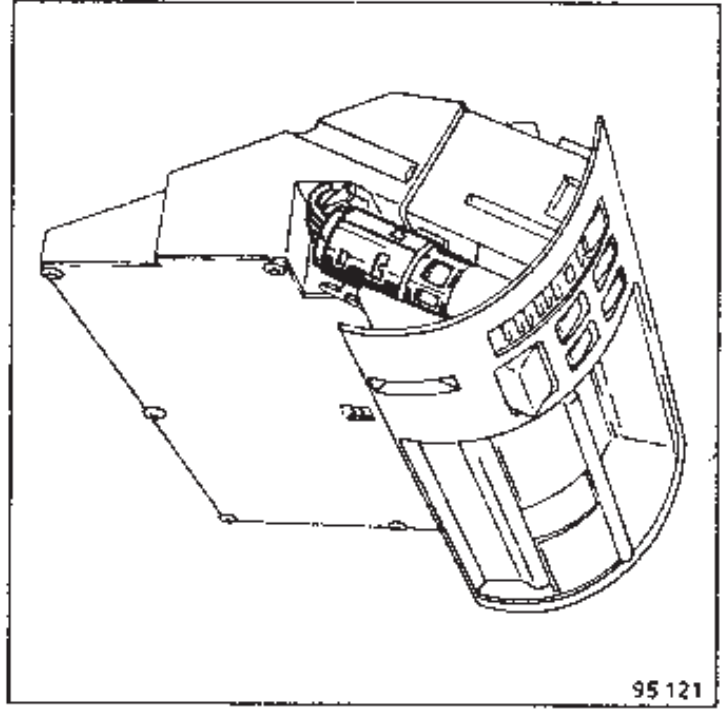
- the instrument panel visor (5 bolts), first lifting the lower left hand edge to avoid the lighting rheostat then carefully unclip the lower right hand edge.



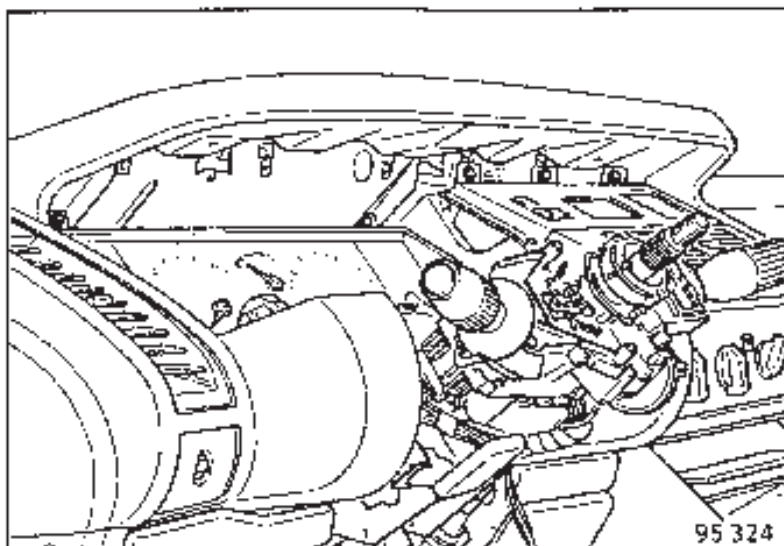
- the clock and central ventilator.



- the lighting rheostat.

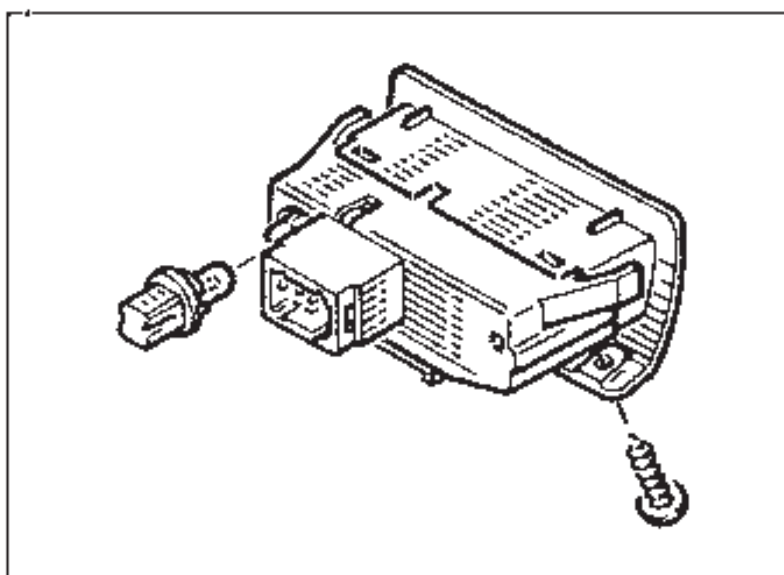


- the air conditioning unit

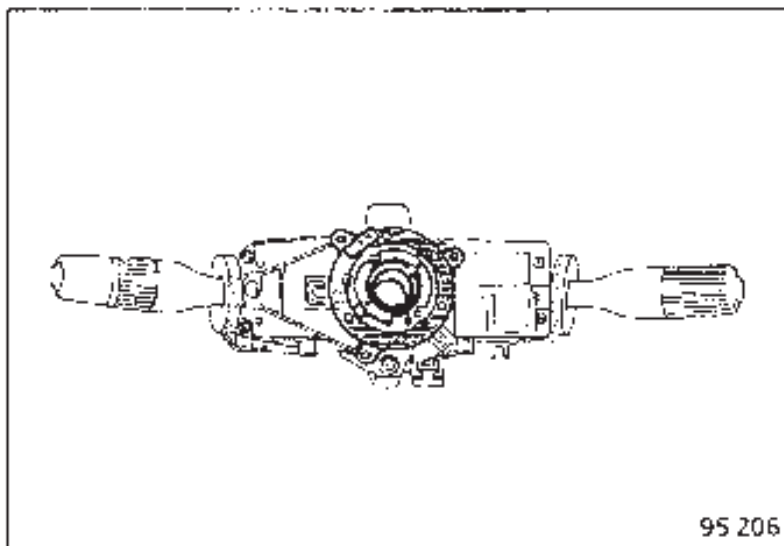


Remove:

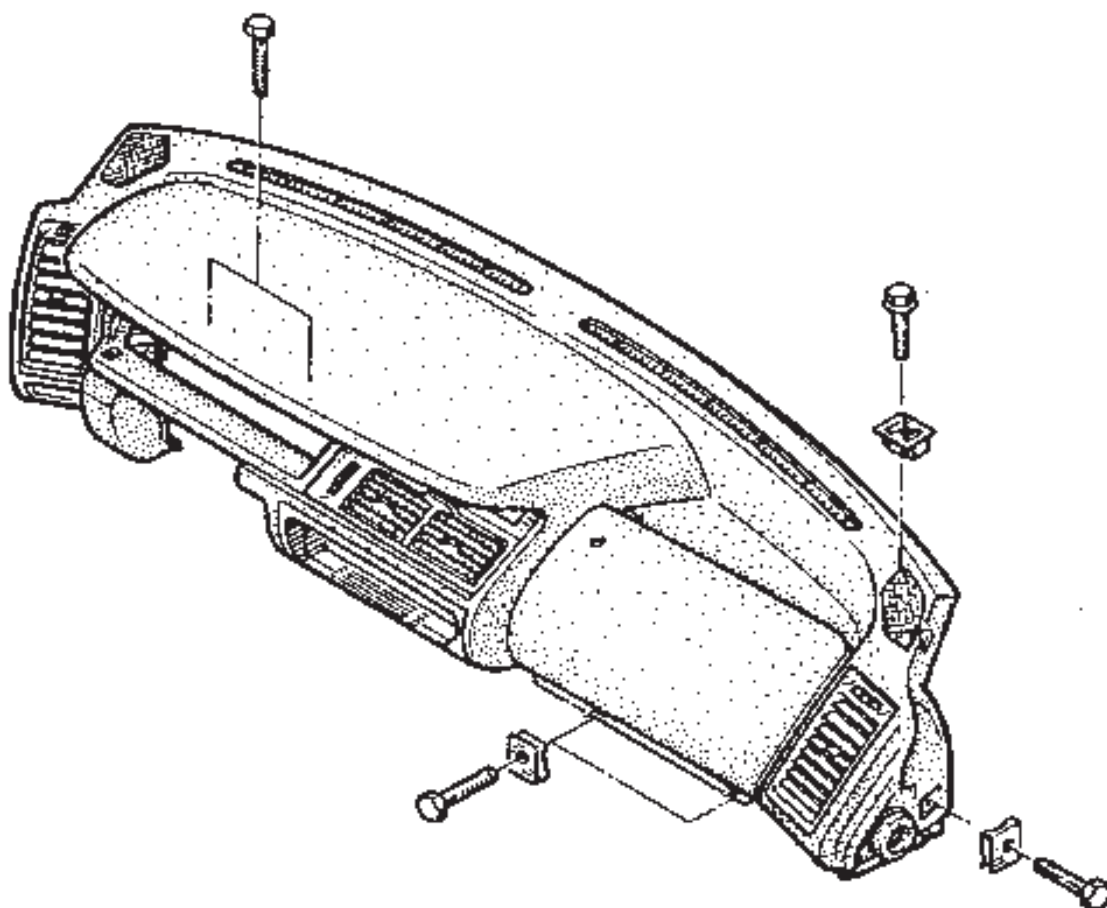
- the instrument panel (see page 83-7).



- the headlight adjustment control



- the switch assembly.

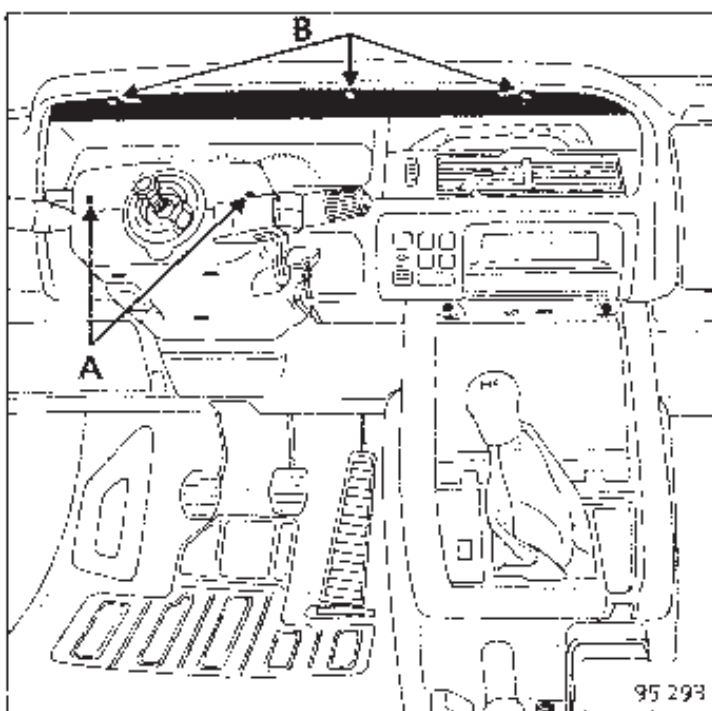


Remove the dashboard mounting screws.

REMOVAL - REFITTING

Raise the steering column as high as possible

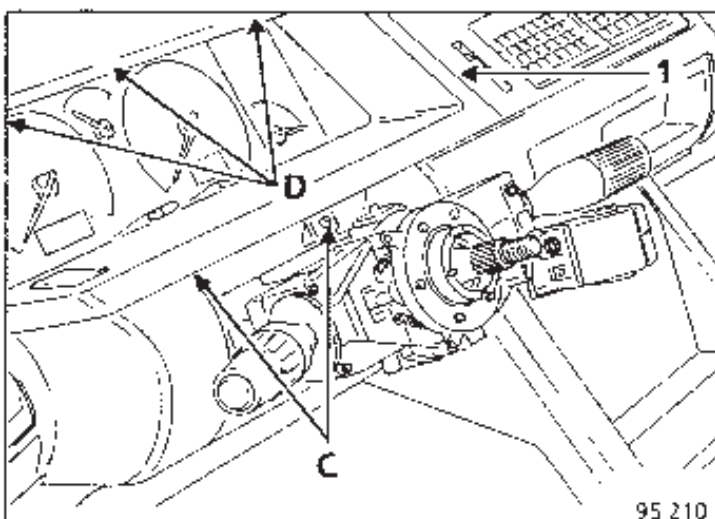
- Disconnect the battery.
- remove the steering wheel with the wheels centralised,
- unclip and remove the hazard warning lights button
- remove the upper half cowling by undoing the two bolts (A).
- unclip the lighting rheostat cover.



Remove:

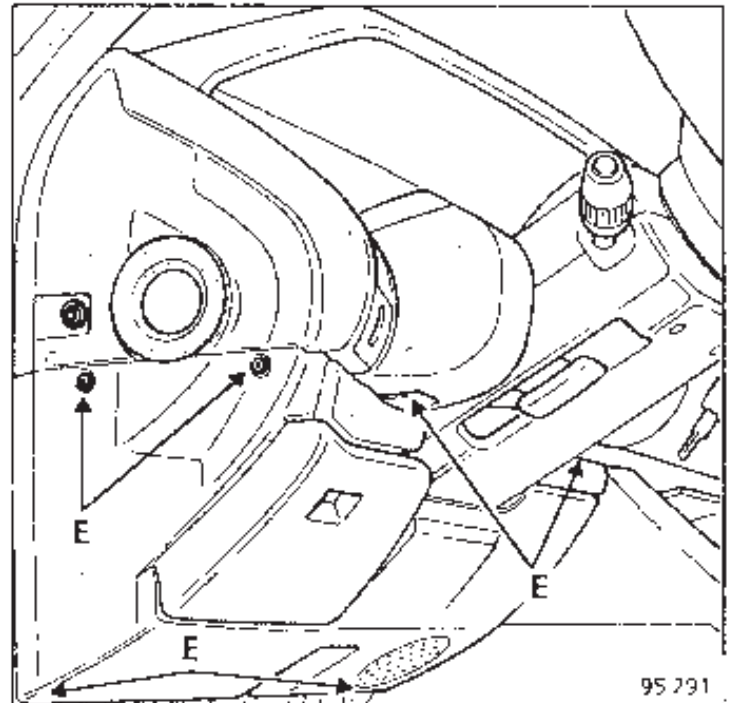
- the three bolts (B).
- the two lower bolts (C) for the dashboard visor.
- the three upper bolts (D).

Remove the visor, first lifting the lower left hand edge to avoid the lighting rheostat then carefully unclip the lower right hand edge at (1).



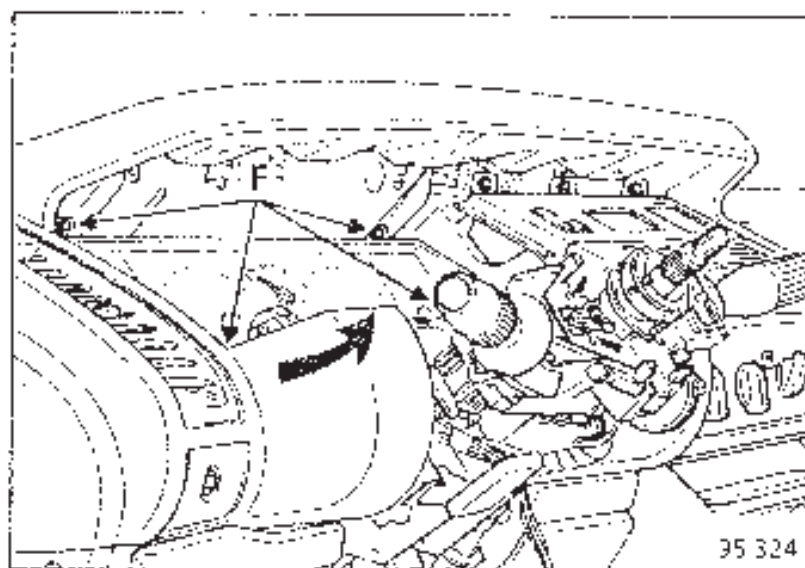
For the conventional instrument panel (without Adac) :

- remove the six bolts for the steering column cover and remove the cover (E).
- unclip the speedometer cable below.



Remove the four instrument panel mounting bolts (F).

Remove the instrument panel tipping it up to release the two rubber clips used for locating the instrument panel on the dashboard.



Special notes for refitting

Use long nose pliers to replace the mounting bolt holding the dashboard behind the lighting rheostat.

Before reconnecting, check the connectors and wires are in good condition.

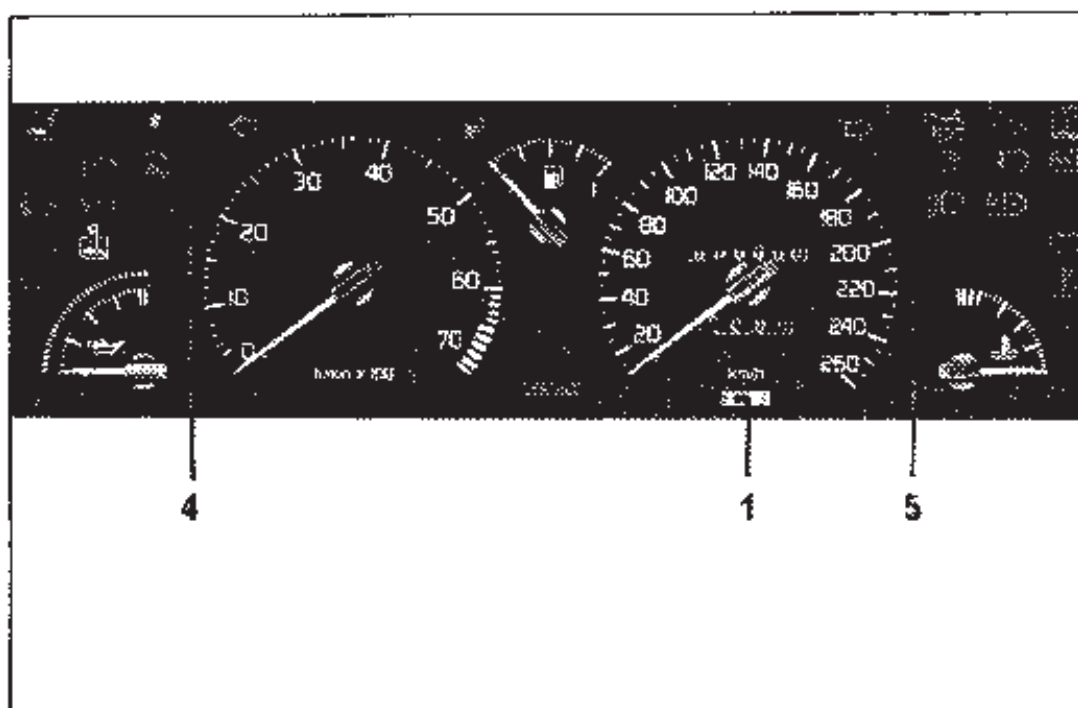
Clip the connectors in correctly.

Reconnect the speedometer cable for the conventional instrument panel (without Adac).

Check the instrument panel functions are operating correctly.

DESCRIPTION

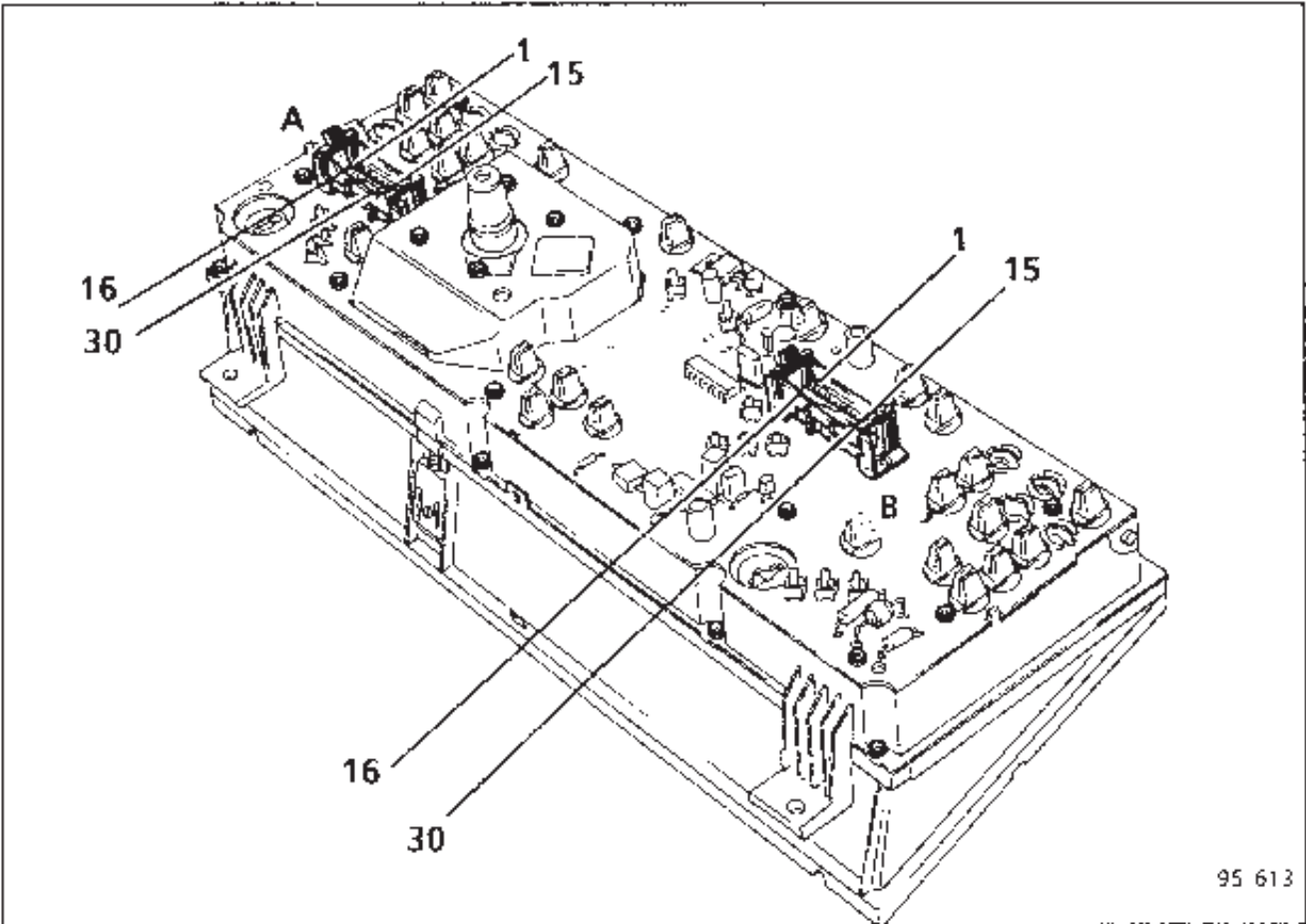
- Mechanical counter
- Rev counter with specific integrated circuit
- Coolant temperature
- Oil pressure and level with specific integrated circuit
- Fuel gauge
- Printed circuit assembly
- Warning light function



1 - Trip counter reset button

4 and 5 - Receiving unit block separators

CONNECTIONS



95 613

Connector A (red)

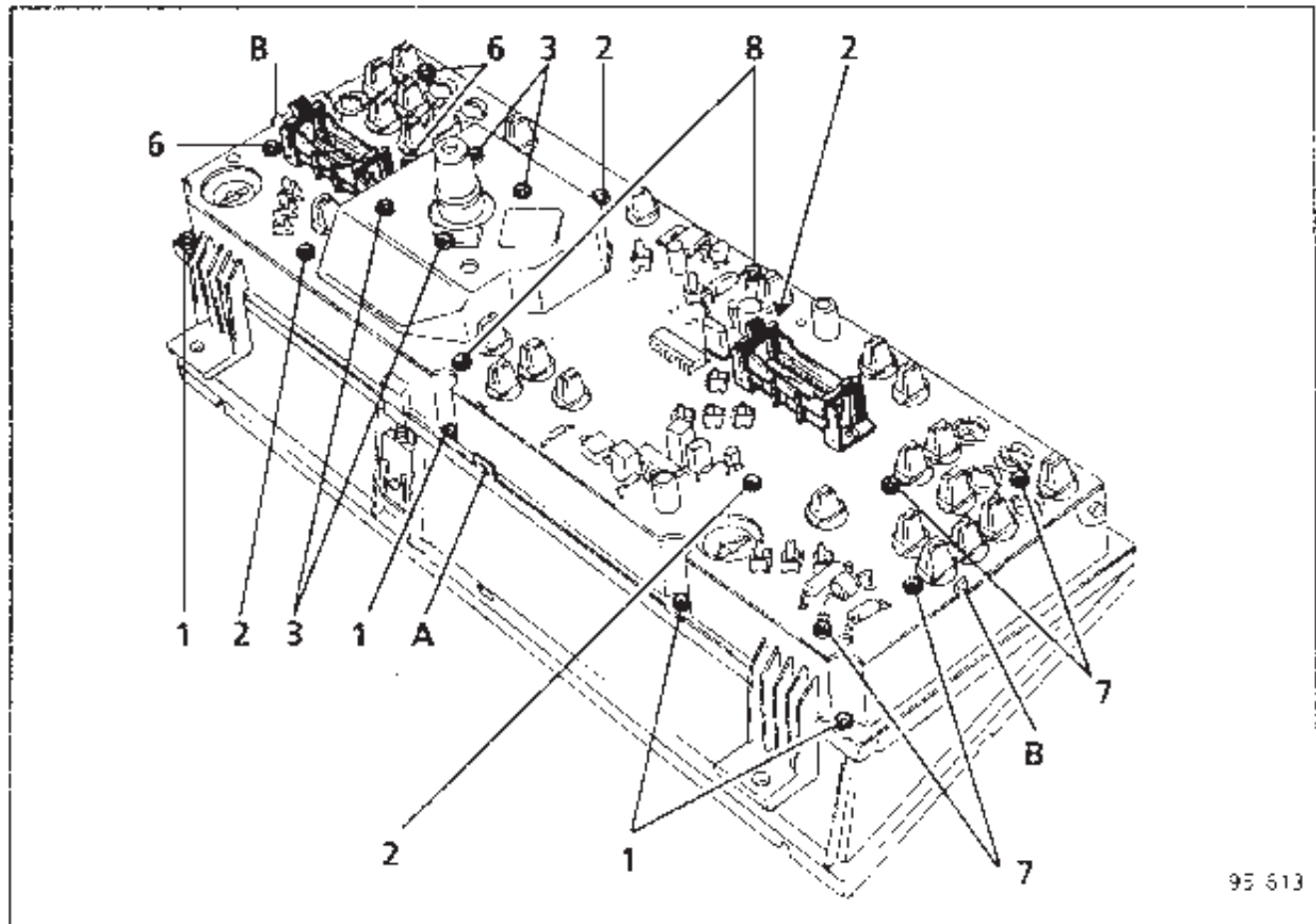
- | | |
|---|--|
| <ul style="list-style-type: none"> 1 - Main beam headlights warning light. 2 - Rear fog lights warning light. 3 - Main beam headlights warning light. 4 - Dipped beam headlights warning light 5 - Front fog lights warning light. 6 - Not used. 7 - Right indicators warning light. 8 - Left indicators warning light. 9 - + after ignition. 10 - + after ignition. 11 - + before ignition. 12 - Not used. 13 - Not used. 14 - Instrument panel lighting. 15 - Driving position lighting via rheostat relay | <ul style="list-style-type: none"> 16 - Charging warning light. 17 - Coolant temperature warning light. 18 - Injection or preheating warning light 19 - Not used. 20 - Not used. 21 - Oil pressure warning light. 22 - Coolant temperature warning light. 23 - Electronic earth. 24 - Oil level sensor information 25 - Oil level sensor information. 26 - Rev counter information 27 - Not used. 28 - Not used. 29 - Not used. 30 - Oil pressure information |
|---|--|

CONNECTIONS (Cont)

Connector B (Blue)

- 1 - Electronic earth.
- 2 - Not used
- 3 - Not used
- 4 - Not used
- 5 - 0 volt. and fuel gauge
- 6 - Fuel level information
- 7 - Not used.
- 8 - Low fuel level warning light
- 9 - Earth
- 10 - Earth
- 11 - Not used
- 12 - Not used
- 13 - Not used
- 14 - Not used
- 15 - Not used
- 16 - Not used
- 17 - Not used
- 18 - Not used
- 19 - Not used
- 20 - Low screen wash level warning light
- 21 - Not used
- 22 - Not used
- 23 - Not used
- 24 - Brake information (nivocode)
- 25 - Brake pad wear warning light
- 26 - Brake pad wear warning light
- 27 - ABS warning light
- 28 - Not used
- 29 - Handbrake information
- 30 - Not used

REMOVAL



95 513

Remove:

- the rear plastic cover by its two quarter turn clips and release the two hinges.
- the four bolts (1).

Separate the unit from the visor by undipping at (A) the counter, rev counter and fuel level gauge assemblies.

Remove:

- the four bolts (2).
- the four bolts (3).

By gently separating the counter, rev counter and fuel level gauge assembly from the unit, remove the two separators (4) and (5) (see page 83-8) by sliding them out.

Remove the counter, rev counter and fuel level gauge assemblies.

COOLANT TEMPERATURE RECEIVER

Remove the three bolts (6).
By gently separating the coolant temperature receiver, slide the separator out (4), and remove the receiver.

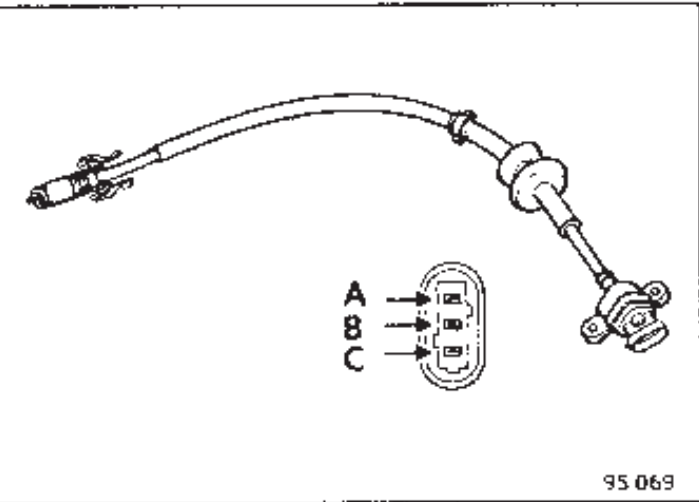
OIL PRESSURE AND LEVEL RECEIVER

Remove the four bolts (7).
By gently separating the oil pressure and level receiver, slide the separator out (5), and remove the receiver.

SPEED INFORMATION

The speedometer cable is fitted with a speed sensor. Vehicle speed information is transmitted to the on board computer and the injection computer.

Connections on 3 track grey connector



- A + 12 V after ignition
- B Vehicle speed information
- C Earth

PRINTED CIRCUIT ASSEMBLY

This may be removed without affecting the receivers.

Remove:

- the rear plastic cover by its 2 quarter turn clips and release the two hinges,
- bolts (2), (6), (7) and the two bolts (8).

Carefully remove the printed circuit by unclipping at (B).

SPECIAL NOTES

The fuel gauge receiver is bi-metallic, and its response time after the ignition has been turned on or off is about 20 seconds.

It also has a voltage stabilizer built in to the printed circuit assembly.

The oil level electronic circuit is also part of the electronic circuit assembly.

DESCRIPTION

Electronic speedometer.

Milometer (total and trip counters).

Electronic rev counter

Electronic oil pressure and level.

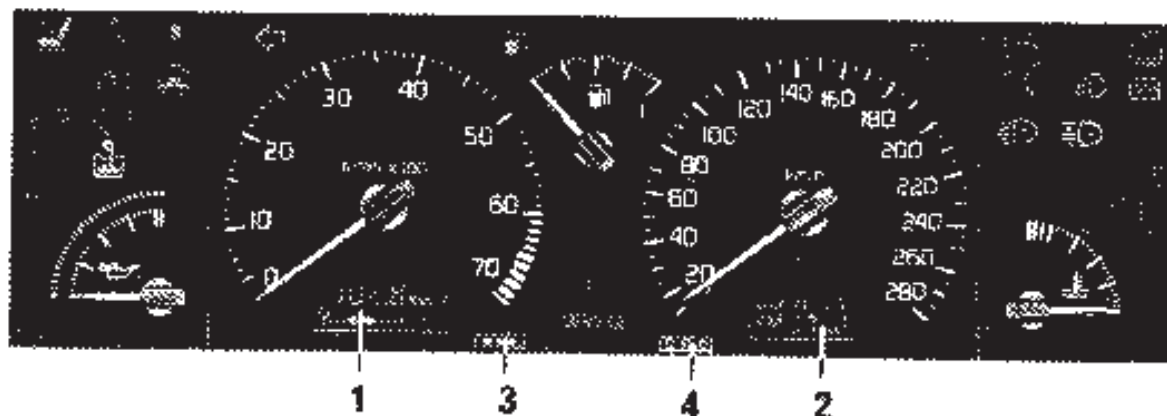
On board computer (travelling parameters)

Coolant temperature

Fuel gauge

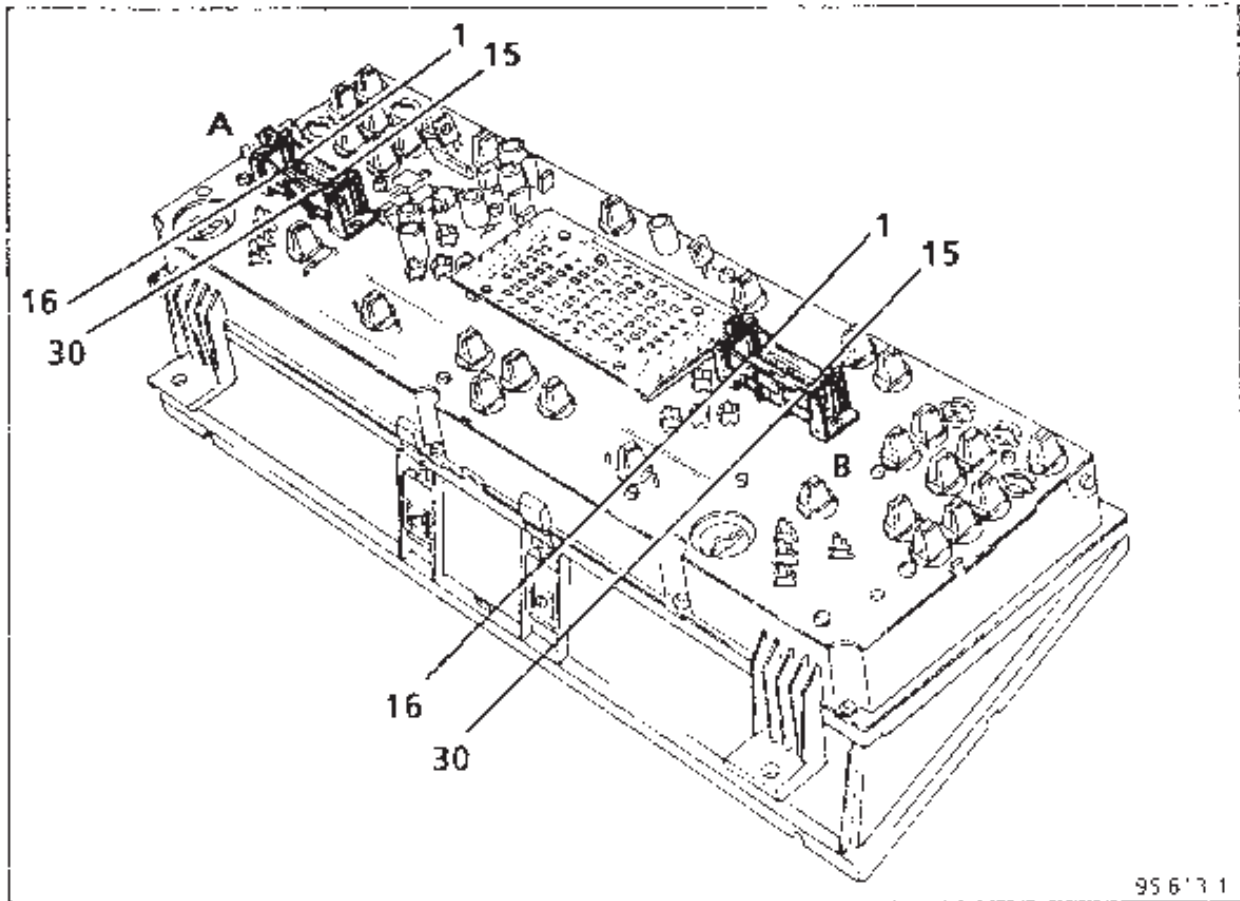
Printed circuit assembly.

Warning lights



- 1 On board computer
- 2 Milometer
- 3 Reset key - Memory zero (on board computer)
- 4 Trip computer zero key

CONNECTIONS



CONNECTOR A (Red)

- 1 Main beam headlights warning light
- 2 Rear fog light warning light
- 3 Main beam headlight warning light
- 4 Dipped headlight warning light
- 5 Front fog light warning light
- 6 Not used
- 7 Right indicators warning light
- 8 Left indicators warning light
- 9 + after ignition
- 10 + after ignition
- 11 + before ignition
- 12 ADAC displays
- 13 Lighting rheostat
- 14 Instrument panel lighting

- 15 Driving position lighting via rheostat relay
- 16 Charging warning light
- 17 Engine coolant temperature via temperature switch
- 18 Preheating / Injection fault warning light
- 19 Injection fault warning light
- 20 AT fault warning light
- 21 Oil pressure warning light
- 22 Engine coolant temperature via thermistor
- 23 Electronic earth
- 24 Oil level sensor information
- 25 Oil level sensor information
- 26 Rev counter information
- 27 Fuel flow information
- 28 Oil temperature information
- 29 0 volt oil temperature
- 30 Oil pressure information

CONNECTIONS

CONNECTOR B (Blue)

- 1 Electronic earth
- 2 Not used
- 3 Not used
- 4 0 volt low fuel warning light
- 5 0 volt common fuel gauge
ADAC/indicator
- 6 Fuel gauge indicator
- 7 Not used
- 8 Low fuel warning light or ADAC gauge info
- 9 Earth
- 10 Earth
- 11 Heated seats warning light
- 12 Not used
- 13 Not used
- 14 Not used
- 15 Not used
- 16 Not used
- 17 Not used
- 18 Not used
- 19 Not used
- 20 Low screen wash warning light
- 21 Speed information
- 22 Not used
- 23 Not used
- 24 Brake warning light (nivocode)
- 25 Brake pad wear warning light
- 26 Brake pad wear warning light
- 27 ABS warning light
- 28 Variable power assisted steering warning light
- 29 Handbrake warning light
- 30 Electronically managed suspension system
warning light/ SERVICE warning light

OPERATION

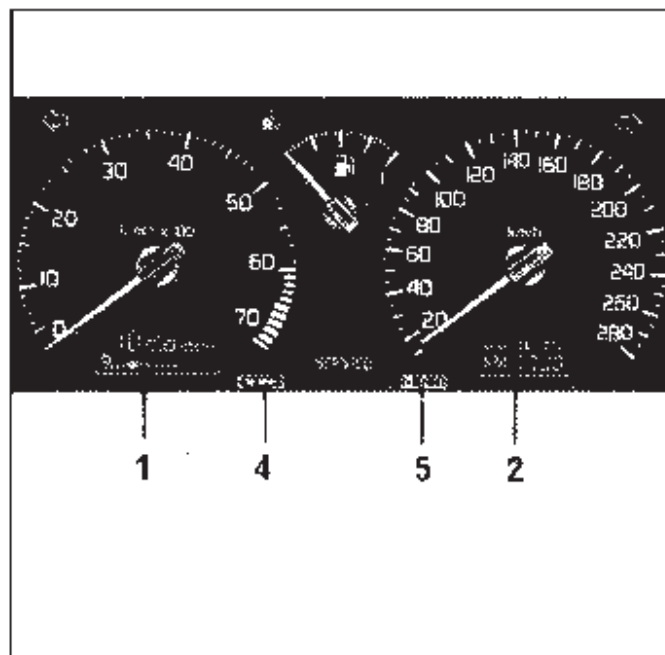
The instrument panel differs outwardly from the previous version by the omission of counter windows on the speed indicator and the addition of two liquid crystal displays.

A microcomputer manages all the electronic functions

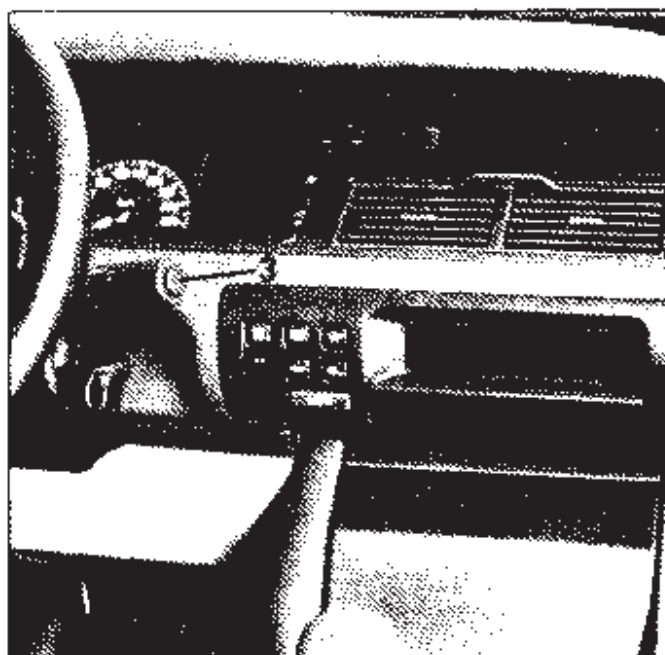
The microcomputer receives the signals across a protection or adapting circuit and send information to 3 indicators (vehicle speed, rev counter, oil pressure and oil level) and to two liquid crystal displays (on board computer and milometer).

The microcomputer also has a fault finding function.

The fuel level and coolant temperature indicators are conventional and are similar to those in the previous instrument panel



- 1 On board computer
- 2 Milometer
- 3 Display selection key for on board computer
- 4 Reset key for zeroing memories
- 5 Trip counter zero key



OPERATION

Milometer

This type of numerical milometer with memory permanently displays the total and trip mileage.

Total counter

This function calculates and displays the number of miles travelled since the vehicle was put into service, or since the instrument panel was replaced.

This function is retained in the memory, even if the battery is disconnected.

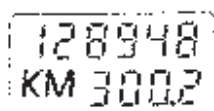
Trip counter

This function calculates and displays the number of miles travelled since the trip counter was last reset.

This function is retained in the memory, even if the battery is disconnected.

To reset the trip counter, press key 5 (see page 83-16).

After the memory capacity has been exceeded, the counter resets automatically (9 999 km).




NOTE : if the speed sensor is faulty, the diagnostic function does not detect this but :

- no speed is displayed,
- the following parameters are incorrectly displayed :
 - distance covered,
 - distance remaining before fuel refill,
 - average speed,
 - average consumption,
 - current consumption,
 - distance remaining before oil change,
- incorrect milometer displays :
 - total counter,
 - trip counter

On board computer

The on board computer loop has 7 displays (journey parameters).

When the ignition is turned on, or when the system is reset, select the display required using key 3 

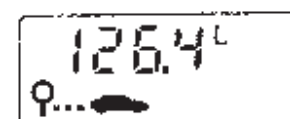
The display shown when the ignition is turned on is the same as before the ignition was last turned off.

The information is displayed in the following order:

- Distance covered (in km)
 - Since the last reset
 - Display of hundreds of metres below 1 000 km.
 - Max capacity : 9 999 km.



- Fuel used (in l)
 - Since the last reset.
 - Max capacity : 1 999 l.



OPERATION

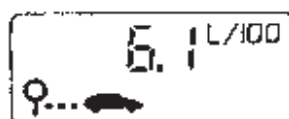
- **Distance remaining before fuel refill (in km)**
Since the last reset
Distance remaining calculated on the basis of distance covered, fuel used and fuel remaining
Max capacity : 9 999 km.
When the fuel remaining is less than 5 litres, dashes are displayed : - - - - km.



- **Average speed (in km/h)**
Obtained by dividing the distance covered by the time elapsed since the last reset.
Uses the internal clock for the on board computer.



- **Average consumption (in l/100 km)**
Calculated from the distance covered and the fuel used since the last reset.



- **Current consumption (in l/100 km)**
No value displayed if speed is below 30 km/h.
The display cannot exceed 35 l/100 km.



- **Distance remaining before oil change (in km)**
Display of distance remaining before oil change is due, based on distance covered and oil temperature (memory).
Max display : 10 000 km.

NOTE : The display counts down in stages of 10 kilometres.



NOTE : For journey parameters to be displayed the vehicle must have travelled at least 400 m since the last reset.

Resetting the on board computer

The computer may be reset when any display is shown by pressing 

This does not alter the trip counter or the distance remaining before oil change.

NOTE : If the maximum capacity of the displays is exceeded or the current is cut (battery disconnected) the memories are reset in the on board computer.

OPERATION

Individual displays

Low fuel level : The low fuel level procedure is activated when the fuel tank only contains 5 litres. The instrument panel electronic circuit sends a signal to the voice synthesiser and illuminates the warning light

The distance remaining remains displayed for 30 seconds approx, then is replaced by 4 dashes.



NOTE : when the ignition is turned on, the 4 dashes are displayed, the voice synthesiser gives a message and the warning light is illuminated immediately.

ATTENTION

If one of the displays flashes (SEE FAULT FINDING)

NOTE : if a gauge or flow information fault has been detected (see fault finding), the low fuel value changes from 5 litres to 8 litres.

RESETTING DISTANCE REMAINING TO OIL CHANGE

This function may be reset (to 10 000 km) when it reaches 0 km or at any other time.

Procedure : Ex. : (Vehicle has reached oil change).

Press the Reset key  and switch on the ignition while holding the key down.



Keep the key depressed 

8 types of display will be shown one after the other :



DISPLAY 1
(spanner flashing)



DISPLAY 2
(spanner flashing)



DISPLAY 3
(spanner flashing)



DISPLAY 4
(spanner flashing)

RESETTING DISTANCE REMAINING TO OIL CHANGE
(cont)



DISPLAY 5
(spanner flashing)



DISPLAY 6
(spanner flashing)

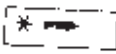



DISPLAY 7
(spanner flashing)



ADAC spanner
fixed. Return to
computer function
(distance
displayed).

NOTE - only changing from DISPLAY 7 to the
computer mode validates the reset, otherwise the
old distance value will be displayed.

If the key  is released during the
procedure after 20 seconds the display returns to
the mode shown before the ignition was turned
off or to the low fuel mode.

The reset may be cancelled before validation, by
releasing key  and pressing key



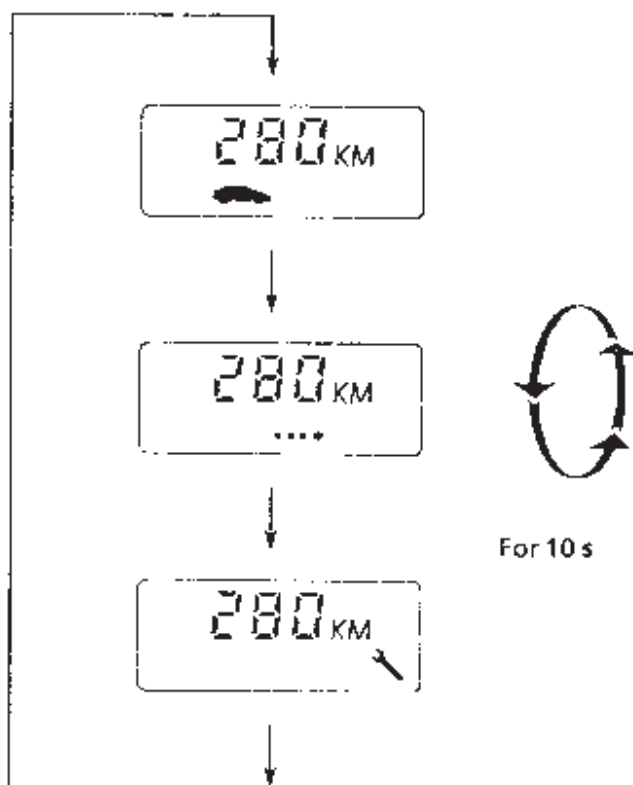
at the end of the windscreen wash
control

Once the reset procedure has been carried out
and validated, the distance remaining before oil
change is displayed or the low fuel display is
shown after 20 seconds.

Special note

If the distance remaining before oil change is less
than 2 000 kilometres when the ignition is turned
on the distance remaining is displayed for
10 seconds and 3 symbols illuminate successively
at the bottom of the display (see example).

Example :



Then the low fuel display is shown (if the fuel is
low) or the last display before the ignition was
turned off is shown.

NOTE: if the vehicle is used despite the distance
before oil change being 0 km, the counter
continues to count, but the display remains on
0 km.

To display the distance covered after oil change
was due, see fault finding sequence.

FAULT FINDING

Fault detection

The on board computer has been studied to determine what faults could affect it

If { fuel used
distance remaining
before refill
average consumption } flash

and flashing dashes are displayed in current consumption this indicates a fuel flow fault for more than 10 miles (16 km).

If only the distance remaining before refill flashes, this indicates a gauge information fault for over 100 seconds.

If the distance remaining before oil change flashes, this indicates an oil temperature sensor fault for more than 10 seconds.

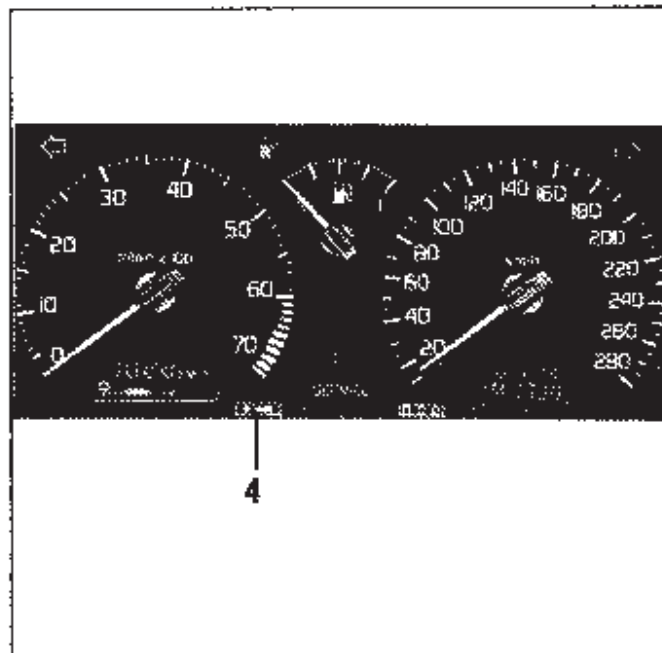
In addition to signalling a fault by a flashing display, the computer stores the fault in its memory.

in the case of a flashing display, or dashes, or to display the sensor faults memorised, follow the fault finding sequence.

The on board computer microprocessor has a test function :

- for the receivers it controls (speedometer , rev counter, oil pressure and level and the liquid crystal displays) and,
- the sensors it requires (oil level sensor, oil pressure sensor, oil temperature sensor, fuel gauge, flow information).

Access to diagnostic sequence



Turn the ignition on, engine stopped.

Press the two keys :

(4)

and

(3) at the same time

for over 2 seconds.

